

# Complex State Management With Redux Pro React

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[Full-Stack React Projects](#) - Shama Hoque 2020-04-17

This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

[Redux in Action](#) - Marc Garreau 2018-05-11

Summary With Redux in Action, you'll discover how to integrate Redux into your React application and development environment. With the insights you glean from the experience of authors Marc Garreau and Will Faurot, you'll be more than confident in your ability to solve your state management woes with Redux and focus on developing the apps you need! Foreword by Mark Erikson, Redux co-maintainer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology With Redux, you manage the state of a web application in a single, simple object, practically eliminating most state-related bugs. Centralizing state with Redux makes it possible to quickly start saved user sessions, maintain a reliable state history, and smoothly transfer state between UIs. Plus, the Redux state container is fully programmable and integrates cleanly with React and other popular frameworks. About the Book Redux in Action is an accessible guide to effectively managing state in web applications. Built around common use cases, this practical book starts with a simple task-management application built in React. You'll use the app to learn the Redux workflow, handle asynchronous actions, and get your hands on the Redux developer tools. With each step, you'll discover more about Redux and the benefits of centralized state management. The book progresses to more-complex examples, including writing middleware for analytics, time travel debugging, and an overview of how Redux works with other frameworks such as Angular and Electron. What's Inside Using Redux in an existing React application Handling side effects with the redux-saga library Consuming APIs with asynchronous actions Unit testing a React and Redux application About the Reader For web developers comfortable with JavaScript and React. About the Author Marc Garreau has architected and executed half a dozen unique client-side applications using Redux. Will Faurot is a mentor for Redux developers of all skill levels. Table of Contents Introducing Redux Your first Redux application Debugging Redux applications Consuming an API Middleware Handling complex side effects Preparing data for components Structuring a Redux store Testing Redux applications Performance Structuring Redux code Redux beyond React

[Full-Stack React, TypeScript, and Node](#) - David Choi 2020-12-18

Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key Features Understand the architecture of React and single-page applications Build a modern Web API for your SPA using Node.js, Express, and GraphQL Gain a clear and practical understanding of how to build a complete full-stack application Book Description React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API

and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What you will learn Discover TypeScript's most important features and how they can be used to improve code quality and maintainability Understand what React Hooks are and how to build React apps using them Implement state management for your React app using Redux Set up an Express project with TypeScript and GraphQL from scratch Build a fully functional online forum app using React and GraphQL Add authentication to your web app using Redis Save and retrieve data from a Postgres database using TypeORM Configure NGINX on the AWS cloud to deploy and serve your apps Who this book is for The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book.

[React Hooks in Action](#) - John Larsen 2021-04-13

Build stylish, slick, and speedy-to-load user interfaces in React without writing custom classes. React Hooks are a new category of functions that help you to manage state, lifecycle and side effects within functional components. React Hooks in Action teaches you to use pre-built hooks like useState, useReducer and useEffect, and to build your own hooks. Your code will be more reusable, require less boilerplate, and you'll instantly be a more effective React developer. About the technology React Hooks promise to make React programmers even more productive. Hooks are a collection of pre-built and custom functions that give you a simpler API for working with key React functionalities. Hooks cleanly encapsulate side effects, make it easier to reuse components between projects, and result in less code overall. These new features represent a fundamental evolution in how the React library functions, so even experienced React developers will want to get up to speed with Hooks. About the book React Hooks in Action shows you how to use Hooks to make your codebase simpler and more reusable, and your applications faster and more responsive. You'll build a resource booking example application chapter by chapter, learning how to develop components with local, shared, and application states. You'll discover different approaches to data fetching, including using Concurrent Mode and Suspense to improve user experience, and explore third party hooks in the evolving React ecosystem. What's inside Create a Redux store and interact with it via Hooks Use code-splitting to improve the responsiveness of your apps Build functional components that can update their own state Manage component side effects Use the React Suspense API to improve the user experience of page and data loading About the reader For front-end web developers experienced with React. About the author John Larsen is the author of Get Programming with JavaScript. He was a mathematics and computing teacher for 25 years. He has an MA in mathematics and an MSc in information technology, and an ongoing interest in educational research. A web developer since 2000, he uses JavaScript end-to-end for server-side and client-side programming.

[Fullstack D3 and Data Visualization](#) - Amelia Wattenberger 2019-02

Build beautiful data visualizations with D3 The Fullstack D3 book is the complete guide to D3. With dozens of code examples showing each step, you can gain new insights into your data by creating visualizations. Learn

how to quickly turn data into insights with D3 We have the data. But it needs to be understood by humans. The best way to convert this data into an understandable format is to mold it into a data visualization. And D3 is the best tool for job if you need to create custom data visualizations. With Fullstack D3 and Data Visualization you and your team will be able to share key insights, uncover problems before they start, and impress your boss by creating gorgeous visualizations. What's Inside Chapter 0: Introduction When would you want to use D3.js? There is a spectrum of libraries to create charts on the web: on one end, you have easy-to-use, basic libraries that will create a standard chart type. Chapter 1: Making your first chart In this chapter we make a line chart. Line charts are a great starting place because of their popularity, but also because of their simplicity. Chapter 2: Making a scatterplot When looking at the relationship between two metrics, a scatterplot is a good choice. In this chapter we show how to create a scatterplot. Chapter 3: Making a bar chart In this chapter we cover how to create a histogram, which is a bar chart that shows the distribution of one metric, with the metric values on the x axis and the frequency of values on the y axis. Chapter 4: Animations and Transitions When we update our charts, we can animate elements from their old to their new positions. These animations can be visually exciting, but more importantly, they have functional benefits. Chapter 5: Interactions The biggest advantage of creating charts with JavaScript is the ability to respond to user input. Chapter 6: Making a map Maps are also uniquely good at answering geography-based questions. In this chapter, we'll build a map and learn how to plot values within a location. Chapter 7: Data Visualization Basics Now that we're comfortable with how to create a chart, we should zoom out a bit and talk about what chart to create. Chapter 8: Common Charts In this chapter, we talk about common chart types and when to use them. Chapter 9: Dashboard Design A dashboard is any web interface that makes sense out of dynamic data, and in this chapter we learn how to make one. Chapter 10: Advanced Visualization: Marginal Histogram First, we'll focus on enhancing a chart we've already made: our scatter plot. This chart will have multiple goals, all exploring the daily temperature ranges in our weather dataset. Chapter 11: Advanced Visualization: Radial Weather Chart We talked about radar charts in Chapter 10. For this project, we'll build a more complex radar chart. Chapter 12: Advanced Visualization: Animated Sankey Diagram In this project, we'll be simulating real data and creating an animated diagram to engage our viewers. Chapter 13: D3 and React What's the best way to draw a chart within React? It turns out that there is a fair bit of overlap in functionality between a React and D3 - we'll discuss how we can create blazing fast charts using the two together. Chapter 14: D3 and Angular In this chapter we show how to create optimized SVG charts using D3 and Angular.

React in Action - Mark Thomas 2018-05-28

Summary React in Action introduces front-end developers to the React framework and related tools. This clearly written, example-rich book begins by introducing you to React, diving into some of the fundamental ideas in React, and working with components. In the second section, you'll explore the different ways that data works in React as well as learning more about components. You'll also find several useful appendixes covering related topics like React tooling and the React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic. The same powerful tools are available to you too! The key is a clever design for managing state, data flow, and rendering, so your application is easy to think about and runs smoothly. Add an incredibly rich ecosystem of components and libraries, and you've got a recipe for building web apps that will delight both developers and users. About the Book React in Action teaches you to think like a pro about user interfaces and building them with React. This practical book gets you up and running quickly with hands-on examples in every chapter. You'll master core topics like rendering, lifecycle methods, JSX, data flow, forms, routing, integrating with third-party libraries, and testing. And the included application design ideas will help make your apps pop. As you learn to integrate React into full-stack applications, you'll explore state management with Redux and server-side rendering, and even dabble in React Native for mobile UIs. What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author

Mark Thomas is an experienced software engineer who works daily with React, JavaScript, and Node.js. He loves clean code, beautiful systems, and good coffee. Table of Contents PART 1 - MEET REACT Meet React Our first component PART 2 - COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 - REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native

Advanced iOS App Architecture (Third Edition) - Josh Berlin 2020-09

Apply Different Architectures to Your Codebase! Advanced iOS App Architecture guides you through building one real-world app written in different architectures to give you hands-on and practical experience working in different architectures. This book will also guide you through the theory you need to gain a solid foundation of architecture concepts so that you can make your own informed decisions on how to use them in your codebase. Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and are looking to build apps using defined architectures, making apps cleaner and easier to maintain. Topics Covered in Advanced iOS App Architecture Navigating Architecture Topics: Learn the theory behind various architectures to help inform which works best for you in different situations you may face. Managing Dependencies: Learn how to manage dependencies both internally and externally within your app. MVVM Architecture: Explore the history of the MVVM architecture and begin building KOOBER - the book's project app - using MVVM principles. Redux Architecture: Explore the history of the Redux architecture and continue building KOOBER using Redux principles. Elements Architecture: Explore the history of the Elements architecture and continue building KOOBER using Elements principles. SwiftUI: Explore SwiftUI and find out how to adapt existing application architectures for use with SwiftUI. After reading this book, you'll have the knowledge to decide which types of architecture components suit your apps and you'll have a deep understanding of the covered architectures. About the iOS Architecture Team The architecture team is a group of seasoned developers who work for large multi-national companies who deal with large and diverse code bases on a daily basis. The knowledge procured over years of development is now being transferred to you through book. We hope you enjoy the book and, hopefully, you'll apply some of the architectures you've learned to your own apps

Learning React - Alex Banks 2017-04-27

If you want to learn how to build efficient user interfaces with React, this is your book. Authors Alex Banks and Eve Porcello show you how to create UIs with this small JavaScript library that can deftly display data changes on large-scale, data-driven websites without page reloads. Along the way, you'll learn how to work with functional programming and the latest ECMAScript features. Developed by Facebook, and used by companies including Netflix, Walmart, and The New York Times for large parts of their web interfaces, React is quickly growing in use. By learning how to build React components with this hands-on guide, you'll fully understand how useful React can be in your organization. Learn key functional programming concepts with JavaScript Peek under the hood to understand how React runs in the browser Create application presentation layers by mounting and composing React components Use component trees to manage data and reduce the time you spend debugging applications Explore React's component lifecycle and use it to load data and improve UI performance Use a routing solution for browser history, bookmarks, and other features of single-page applications Learn how to structure React applications with servers in mind

Isomorphic Web Applications - Elyse Gordon 2018-05-24

Summary Isomorphic Web Applications teaches you to build production-quality web apps using isomorphic architecture. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build secure web apps that perform beautifully with high, low, or no bandwidth. Isomorphic web apps employ a pattern that exploits the full stack, storing data locally and minimizing server hits. They render flawlessly, maximize SEO, and offer opportunities to share code and libraries between client and server. About the Book Isomorphic Web Applications teaches you to build production-quality web apps using isomorphic architecture. You'll learn

to create and render views for both server and browser, optimize local storage, streamline server interactions, and handle data serialization. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. You'll also explore unique debugging and testing techniques and master specific SEO skills. What's Inside Controlling browser and server user sessions Combining server-rendered and SPA architectures Building best-practice React applications Debugging and testing About the Reader To benefit from this book, readers need to know JavaScript, HTML5, and a framework of their choice, including React and Angular. About the Author Elyse Kolker Gordon runs the growth engineering team at Strava. Previously, she was director of web engineering at Vevo, where she regularly solved challenges with isomorphic apps. Table of Contents PART 1 - FIRST STEPS Introduction to isomorphic web application architecture A sample isomorphic app PART 2 - ISOMORPHIC APP BASICS React overview Applying React Tools: webpack and Babel Redux PART 3 - ISOMORPHIC ARCHITECTURE Building the server Isomorphic view rendering Testing and debugging Handling server/browser differences 203 Optimizing for production PART 4 - APPLYING ISOMORPHIC ARCHITECTURE WITH OTHER TOOLS Other frameworks: implementing isomorphic without React Where to go from here

[Node.js Beyond the Basics](#) - Samer Buna 2018-03

Master the Node.js runtime beyond the basic usage Topics Covered: Node.js Fundamentals Built-in Modules Requiring Modules Using and Implementing Streams Child Processes The Node Cluster Module Scaling Node.js Applications

[ReactJS by Example - Building Modern Web Applications with React](#) - Vipul A M 2016-04-21

Get up and running with ReactJS by developing five cutting-edge and responsive projects About This Book Create pragmatic real-world applications while learning React and its modern developer tools Build sustainable user interfaces by transforming data into components of UI Learn how to generate reusable ReactJS components effectively Who This Book Is For If you are a web developer and wish to learn ReactJS from scratch, then this book is tailor-made for you. Good understanding of Javascript, HTML, and CSS is expected. What You Will Learn Create, reuse, and compose React components using JSX Share data between various React components and techniques for data flow within a React app Handle user interactions with the help of event handlers and dynamic components Set up and use various next generation ES2015/ES6 features with React Understand the performance and immutability features of React using React add-ons Learn the techniques of Animation in React Use data stores to store model-related data and information Create a flux-based React application by using Reflux library In Detail ReactJS is an open-source JavaScript library that brings the power of reactive programming to web applications and sites. It aims to address the challenges encountered in developing single-page applications, and is intended to help developers build large, easily scalable and changing web apps. Starting with a project on Open Library API, you will be introduced to React and JSX before moving on to learning about the life cycle of a React component. In the second project, building a multi-step wizard form, you will learn about composite dynamic components and perform DOM actions. You will also learn about building a fast search engine by exploring server-side rendering in the third project on a search engine application. Next, you will build a simple frontpage for an e-commerce app in the fourth project by using data models and React add-ons. In the final project you will develop a complete social media tracker by using the flux way of defining React apps and know about the best practices and use cases with the help of ES6 and redux. By the end of this book, you will not only have a good understanding of ReactJS but will also have built your very own responsive frontend applications from scratch. Style and approach An easy-to-follow program to learn ReactJS with the help of real world projects. Each topic is explained within the context of a project and provides plenty of tips and tricks for using ReactJS.

[React Projects](#) - Roy Derks 2019-12-20

Build cross-platform applications of varying complexity for the web, mobile, and VR devices using React tooling Key FeaturesBuild React applications at scale using effective React patterns and best practicesExplore React features such as Hooks, the Context API, and the Suspense APIExtend React's integration with React Native for building cross-platform mobile apps and gamesBook Description Developed by Facebook, React is a popular library for building impressive user interfaces. React extends its capabilities to the mobile platform using the

React Native framework and integrates with popular web and mobile tools to build scalable applications. React Projects is your guide to learning React development by using modern development patterns and integrating React with powerful web tools such as GraphQL, Expo, and React 360. You'll start building a real-world project right from the first chapter and get hands on with developing scalable applications as you advance to building more complex projects. Throughout the book, you'll use the latest versions of React and React Native to explore features such as Higher Order Components (HOC), Context, and Hooks on multiple platforms, which will help you build full stack web and mobile applications efficiently. Finally, you'll delve into unit testing with Jest to build test-driven apps. By the end of this React book, you'll have developed the skills necessary to start building scalable React apps across web and mobile platforms. What you will learnCreate a wide range of applications using various modern React tools and frameworksDiscover how React Hooks modernize state management for React appsDevelop progressive web applications using React componentsBuild test-driven React applications using the Jest and Enzyme frameworksUnderstand full stack development using React, Apollo, and GraphQLPerform server-side rendering using React and React RouterDesign gestures and animations for a cross-platform game using React NativeWho this book is for The book is for JavaScript developers who want to explore React tooling and frameworks for building cross-platform applications. Basic knowledge of web development, ECMAScript, and React will assist with understanding key concepts covered in this book.

[MobX Quick Start Guide](#) - Pavan Podila 2018-07-26

Apply functional Reactive programming for simple and scalable state management with MobX Key Features The easiest way to learn MobX to enhance your client-side state-management Understand how the concepts and components fit together Work through different state management scenarios with MobX Book Description MobX is a simple and highly scalable state management library in JavaScript. Its abstractions can help you manage state in small to extremely large applications. However, if you are just starting out, it is essential to have a guide that can help you take the first steps. This book aims to be that guide that will equip you with the skills needed to use MobX and effectively handle the state management aspects of your application. You will first learn about observables, actions, and reactions: the core concepts of MobX. To see how MobX really shines and simplifies state management, you'll work through some real-world use cases. Building on these core concepts and use cases, you will learn about advanced MobX, its APIs, and libraries that extend MobX. By the end of this book, you will not only have a solid conceptual understanding of MobX, but also practical experience. You will gain the confidence to tackle many of the common state management problems in your own projects. What you will learn Explore the fundamental concepts of MobX, such as observables, actions, and reactions Use observables to track state and react to its changes with validations and visual feedback (via React Components) Create a MobX observable from different data types Define form data as an observable state and tackle sync and async form validations Use the special APIs to directly manipulate observables, tracking its changes, and discovering the reasons behind a change Tackle any state management issue you may have in your app by combining mobx-utils and mobx-state-tree Explore the internals of the MobX reactive system by diving into its inner workings Who this book is for This book is for web developers who want to implement easy and scalable state management for their apps. Knowledge of HTML, CSS, and JavaScript is assumed

[Learning React](#) - Alex Banks 2020-06-12

If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScriptLook under the hood to learn how React runs in the browserCreate application presentation layers with React componentsManage data and reduce the time you spend debugging applicationsIncorporate React Hooks to manage state and fetch dataUse a routing solution for single-page

application features Learn how to structure React applications with servers in mind

#### **Professional JavaScript** - Hugo Di Francesco 2019-09-30

Develop your JavaScript programming skills by learning strategies and techniques commonly used in modern full-stack application development

**Key Features** Write and deploy full-stack applications efficiently with JavaScript Delve into JavaScript's multiple programming paradigms Get up to speed with core concepts such as modularity and functional programming to write efficient code

**Book Description** In depth knowledge of JavaScript makes it easier to learn a variety of other frameworks, including React, Angular, and related tools and libraries. This book is designed to help you cover the core JavaScript concepts you need to build modern applications. You'll start by learning how to represent an HTML document in the Document Object Model (DOM). Then, you'll combine your knowledge of the DOM and Node.js to create a web scraper for practical situations. As you read through further lessons, you'll create a Node.js-based RESTful API using the Express library for Node.js. You'll also understand how modular designs can be used for better reusability and collaboration with multiple developers on a single project. Later lessons will guide you through building unit tests, which ensure that the core functionality of your program is not affected over time. The book will also demonstrate how constructors, `async/await`, and events can load your applications quickly and efficiently. Finally, you'll gain useful insights into functional programming concepts such as immutability, pure functions, and higher-order functions. By the end of this book, you'll have the skills you need to tackle any real-world JavaScript development problem using a modern JavaScript approach, both for the client and server sides. What you will learn

**Apply the core concepts of functional programming** Build a Node.js project that uses the Express.js library to host an API

**Create unit tests for a Node.js project to validate it** Use the Cheerio library with Node.js to create a basic web scraper

**Develop a React interface to build processing flows** Use callbacks as a basic way to bring control back

**Who this book is for** If you want to advance from being a frontend developer to a full-stack developer and learn how Node.js can be used for hosting full-stack applications, this is an ideal book for you. After reading this book, you'll be able to write better JavaScript code and learn about the latest trends in the language. To easily grasp the concepts explained here, you should know the basic syntax of JavaScript and should've worked with popular frontend libraries such as jQuery. You should have also used JavaScript with HTML and CSS but not necessarily Node.js.

#### **The Road to Firebase** - Robin Wieruch 2019-01-24

The Road to Firebase is your personal journey to master advanced React for business web applications in JavaScript whereas Firebase is used to replace everything that you would want from a backend application. Firebase enables you to connect your React application to a database, to authenticated users with your application with a login, logout and register mechanisms, and to authorize only certain users to access your application. It also comes with hosting capabilities and with social logins via Google, Facebook and more. Everything will be explained in the book while building a business web application yourself. I wrote the The Road to React with Firebase over the last two years. During this time, I came to understand the practical genius of Firebase, and how it dramatically reduces the tech stack to focus on getting sh\*t done. Once you have set up your starter kit project -- that's what we are going to do together in this book -- you are ready to iterate fast on your personal ideas. There is no need to complicate things by adding a backend application with a database to your frontend application, because Firebase takes care of it with a well-designed API. I applied the same principles as my other books: Stay pragmatic Keep it simple Answer the why, not just the how Experience a problem, solve a problem This book is not intended to be an end-all reference for the Firebase API nor an in-depth guide about the internals of Firebase. Instead, its purpose is to journey through learning Firebase with React the pragmatic way, building an entire application on this tech stack yourself. The end result is the foundation to make your business application a reality. Requirements To get the most out of this book, you should be familiar with the basics of web development, which includes knowledge of HTML, CSS and JavaScript. You will also need to be familiar with the term API, because APIs are used frequently for the applications in this book. Editor/Terminal or IDE For the development environment, use a running editor/terminal (command line tool) or IDE with integrated terminal. I will provide a setup guide if you're unsure about which tools to use. The guide is set up for MacOS users, but you can find a Windows setup guide there as well. Node and NPM You will need to have node and npm installed, which are used to run the

applications we'll build and manage the libraries we'll use along the way. In this book, you will install external node packages via npm (node package manager). These node packages can be libraries or whole frameworks. You can verify which node and npm versions you have in the command line: `node --version v10.11.0 npm --version v6.5.0` These are the versions used for this publication. If you don't see output in your terminal, you will need to install node and npm. React My other book, called The Road to learn React, teaches the fundamentals about React by building a real world application. It is available for free, and after having read it, you should possess all the understanding necessary to work with the application(s) from this book. Also there will be many sidenotes to React articles that may be helpful.

#### **Learning Redux** - Daniel Bugl 2017-08-31

Build consistent web apps with Redux by easily centralizing the state of your application. About This Book Write applications that behave consistently, run in different environments (client, server and native), and are easy to test Take your web apps to the next level by combining the power of Redux with other frameworks such as React and Angular Uncover the best practices and hidden features of Redux to build applications that are powerful, consistent, and maintainable Who This Book Is For This book targets developers who are already fluent in JavaScript but want to extend their web development skills to develop and maintain bigger applications. What You Will Learn Understand why and how Redux works Implement the basic elements of Redux Use Redux in combination with React/Angular to develop a web application Debug a Redux application Interface with external APIs with Redux Implement user authentication with Redux Write tests for all elements of a Redux application Implement simple and more advanced routing with Redux Learn about server-side rendering with Redux and React Create higher-order reducers for Redux Extend the Redux store via middleware In Detail The book starts with a short introduction to the principles and the ecosystem of Redux, then moves on to show how to implement the basic elements of Redux and put them together. Afterward, you are going to learn how to integrate Redux with other frameworks, such as React and Angular. Along the way, you are going to develop a blog application. To practice developing growing applications with Redux, we are going to start from nothing and keep adding features to our application throughout the book. You are going to learn how to integrate and use Redux DevTools to debug applications, and access external APIs with Redux. You are also going to get acquainted with writing tests for all elements of a Redux application. Furthermore, we are going to cover important concepts in web development, such as routing, user authentication, and communication with a backend server After explaining how to use Redux and how powerful its ecosystem can be, the book teaches you how to make your own abstractions on top of Redux, such as higher-order reducers and middleware. By the end of the book, you are going to be able to develop and maintain Redux applications with ease. In addition to learning about Redux, you are going be familiar with its ecosystem, and learn a lot about JavaScript itself, including best practices and patterns. Style and approach This practical guide will teach you how to develop a complex, data-intensive application leveraging the capabilities of the Redux framework.

#### **Pro React 16** - Adam Freeman 2019-03-19

Use the enormously popular React framework to build dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. You will learn how React brings the power of strong architecture and responsive data to the client, providing the foundation for complex and rich user interfaces. Best-selling author Adam Freeman explains how to get the most from React. He begins by describing the React architecture and the benefits it offers and then shows you how to use React and its associated tools and libraries in your projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Each topic is presented clearly and concisely. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid understanding of the React design Create rich and dynamic web app clients using React Create data stores using Redux Consume data using REST and GraphQL Test your React projects Who This Book Is For JavaScript developers who want to use React to create dynamic client-side applications

#### **React Native in Action** - nader dabit 2019-03-07

Summary React Native in Action gives iOS, Android, and web developers the knowledge and confidence they need to begin building high-quality iOS and Android apps using the React Native framework. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

Manning Publications. About the Technology React Native gives mobile and web developers the power of "and." Write your app once and easily deploy it to iOS and Android and the web. React Native apps compile into platform-specific code, reducing development time, effort, and cost! And because you're using JavaScript and the React framework, you benefit from a huge ecosystem of tools, expertise, and support. About the Book React Native in Action teaches you to build high-quality cross-platform mobile and web apps. In this hands-on guide, you'll jump right into building a complete app with the help of clear, easy-to-follow instructions. As you build your skills, you'll drill down to more-advanced topics like styling, APIs, animations, data architecture, and more! You'll also learn how to maximize code reuse without sacrificing native platform look-and-feel. What's Inside Building cross-platform mobile and web apps Routing, Redux, and animations Cross-network data requests Storing and retrieving data locally Managing data and state About the Reader Written for beginner-to-intermediate web, Android, and iOS developers. About the Authors Nader Dabit is a developer advocate at AWS Mobile, where he works on tools and services to allow developers to build full-stack web and mobile applications using their existing skillset. He is also the founder of React Native Training and the host of the "React Native Radio" podcast. Table of Contents PART 1 Getting started with React Native Getting started with React Native Understanding React Building your first React Native app PART 2 Developing applications in React Native Introduction to styling Styling in depth Navigation Animations Using the Redux data architecture library PART 3 API reference Implementing cross-platform APIs Implementing iOS-specific components and APIs Implementing Android-specific components and APIs PART 4 Bringing it all together Building a Star Wars app using cross-platform components

Pro React - Cassio de Sousa Antonio 2015-12-29

Pro React teaches you how to successfully structure increasingly complex front-end applications and interfaces. This book explores the React library in depth, as well as detailing additional tools and libraries in the React ecosystem, enabling you to create complete, complex applications. You will learn how to use React completely, and learn best practices for creating interfaces in a composable way. You will also cover additional tools and libraries in the React ecosystem (such as React Router and Flux architecture). Each topic is covered clearly and concisely and is packed with the details you need to learn to be truly effective. The most important features are given no-nonsense, in-depth treatment, and every chapter details common problems and how to avoid them. If you already have experience creating front-end apps using jQuery or perhaps other JavaScript frameworks, but need to solve the increasingly common problem of structuring complex front-end applications, then this book is for you. Start working with React like a pro - add Pro React to your library today.

**The Road to React** - Robin Wieruch 2017-11-15

LAST UPDATE: 28. September 2022 If you are looking for a comprehensive and pragmatic yet concise and up-to-date React.js feat. Hooks book, the Road to React is for you. What you will learn. In "The Road to React" you will learn about all the fundamentals of React.js with Hooks while building a full-blown React application step by step. While you create the React application, every chapter will introduce you to a new React key feature. However, there is more than only the fundamentals: The book dives into related topics (e.g. React with TypeScript, Testing, Performance Optimizations) and advanced feature implementations like client- and server-side searching. At the end of the book, you will have a fully working deployed React application. Is it up to date? Programming books are usually outdated soon after their release, but since this book is self-published, I can update it as needed whenever a new version of something related to this book gets released. I am a beginner. Is this book for me? Yes. The book starts from zero and takes you through the learning experience step by step. Every chapter builds up on the learnings from the previous chapter. In addition, at the end of every chapter, exercises fortify your lessons learned. If you got stuck in a chapter, you will always find a reference URL to the status quo of the actual code. Core Concepts Pragmatic: Master React while building a complete application step by step. Problems Solving: You need to experience a problem first before solving it. The Why: Readers like how the book answers the Why, not only the How. Table of Contents Fundamentals of React Hello React Requirements Setting up a React Project Meet the React Component React JSX Lists in React Meet another React Component React Component Instantiation ReactDOM React Component Definition (Advanced) Handler Function in JSX React Props React State Callback Handlers in JSX Lifting State in React React

Controlled Components Props Handling (Advanced) React Side-Effects React Custom Hooks (Advanced) React Fragments Reusable React Component React Component Composition Imperative React Inline Handler in JSX React Asynchronous Data React Conditional Rendering React Advanced State React Impossible States Data Fetching with React Data Re-Fetching in React Memoized Handler in React (Advanced) Explicit Data Fetching with React Third-Party Libraries in React Async/Await in React (Advanced) Forms in React React's Legacy React Class Components React Class Components: State Imperative React Styling in React CSS in React CSS Modules in React Styled Components in React SVGs in React React Maintenance Performance in React (Advanced) TypeScript in React Unit Testing to Integration Testing React Project Structure Real World React (Advanced) Sorting Reverse Sort Remember Last Searches Paginated Fetch Deploying a React Application Build Process Deploy to Firebase

**Mastering Rust** - Sufyan bin Uzayr 2022-11-11

Mastering Rust helps the reader master the powerful Rust programming language for creating stable and versatile applications and projects. Rust is a dependable and robust programming language that was created with today's needs in mind, which is something that several other scripting languages lack. Rust was developed to provide high functions comparable to those of C and C++, and with a focus on code integrity, which is, arguably, lacking in languages such as C. Rust is a dynamically typed language that emphasizes performance and reliability, particularly in parallelism and storage organization. Rust allows you to store data on the tower or the shedload, and it recognizes the importance of performance optimization. It permits even more effective memory usage as well as faster memory management than most other programming languages in its league. Make no mistake about it - Rust is a programming language with a strong learning curve, and is considered complicated by even the most experienced of developers. The rewards for learning Rust are aplenty, but the learning process itself requires a good deal of determination and hard work. Nonetheless, Rust aims to provide a secure, concurrent, and practical systems language in ways that other programming languages do not, and this is primarily why Rust is often the preferred choice for building complex and highly stable apps. Rust boasts of advantages over many other programming languages in terms of expressiveness, speed, sound design, and memory storage. Though the language is new and constantly changing with time, there is an excellent opportunity in this field for future employment. That said, to learn the reliable language that is Rust, you need to have an equally reliable companion guide in your hands, and this is where Mastering Rust comes in. With Mastering Rust, learning Rust programming language becomes a charm, and will undoubtedly help readers advance their careers. The Mastering Computer Science series is edited by Sufyan bin Uzayr, a writer and educator with more than a decade of experience in the computing field.

**Programming JavaScript Applications** - Eric Elliott 2014-06-26

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web programming language, but in the real world, JavaScript applications often break when you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application Build modern web apps with the capabilities of desktop applications Learn best practices for code organization, modularity, and reuse Separate your application into different layers of responsibility Build efficient, self-describing hypermedia APIs with Node.js Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your application's reach through internationalization

**React Native Cookbook** - Jonathan Lebensold 2018-02-13

Tackling an app development project on multiple platforms is no simple task. When time is in short supply and customers need access from the tap of a home screen, React Native can provide a lean development team with the tools needed to deliver a multi-platform native experience without juggling multiple programming languages and shifting code bases. React Native is an emerging technology and best practices are only beginning to bubble up. Fortunately, a growing user community—from tech giants such as Facebook, Yahoo, and Airbnb to

the independent developers—is hard at work codifying patterns and best practices for how to use React Native. This cookbook is another milestone on that journey. Aimed at people with some JavaScript and web development experience, the first part of this cookbook covers some simple tips for getting started with React Native. Part 2 will cover some emerging patterns that are commonly found in most native applications. [Composing Software](#) - Eric Elliott 2018-12-27

All software design is composition: the act of breaking complex problems down into smaller problems and composing those solutions. Most developers have a limited understanding of compositional techniques. It's time for that to change. In "Composing Software", Eric Elliott shares the fundamentals of composition, including both function composition and object composition, and explores them in the context of JavaScript. The book covers the foundations of both functional programming and object oriented programming to help the reader better understand how to build and structure complex applications using simple building blocks. You'll learn: Functional programming Object composition How to work with composite data structures Closures Higher order functions Functors (e.g., array.map) Monads (e.g., promises) Transducers Lenses All of this in the context of JavaScript, the most used programming language in the world. But the learning doesn't stop at JavaScript. You'll be able to apply these lessons to any language. This book is about the timeless principles of software composition and its lessons will outlast the hot languages and frameworks of today. Unlike most programming books, this one may still be relevant 20 years from now. This book began life as a popular blog post series that attracted hundreds of thousands of readers and influenced the way software is built at many high growth tech startups and fortune 500 companies

**React Deep Dive** - Manuel Bieh 2020-07-06

React has taken Frontend Development by storm over the past couple of years, unlike any other library before it. Today there are hardly any metrics where React does not take the top spot: downloads, popularity, usability. With "React Deep Dive" you will take a deep look into developing modern Frontend applications with the help of React. Not only will you learn how react works, but you will also look into what makes React so special and what the creators of React were thinking when creating the library. You will also learn why React is a more descriptive approach to Frontend Development, and how it has turned previous approaches on their head. This book covers all the important topics for developing applications using React, and is aimed at both: those who are just getting started with React, and those who are looking to deepen their understanding.

**GraphQL in Action** - Samer Buna 2021-03-09

GraphQL in Action gives you the tools to get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. Summary Reduce bandwidth demands on your APIs by getting only the results you need—all in a single request! The GraphQL query language simplifies interactions with web servers, enabling smarter API queries that can hugely improve the efficiency of data requests. In GraphQL in Action, you'll learn how to bring those benefits to your own APIs, giving your clients the power to ask for exactly what they need from your server, no more, no less. Practical and example-driven, this book teaches everything you need to get started with GraphQL—from design principles and syntax right through to performance optimization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology GraphQL APIs are fast, efficient, and easy to maintain. They reduce app latency and server cost while boosting developer productivity. This powerful query layer offers precise control over API requests and returns, making apps faster and less prone to error. About the book GraphQL in Action gives you the tools to get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. By working through set up, security, and error handling you'll learn to create a complete GraphQL server. You'll also unlock easy ways to incorporate GraphQL into your existing codebase so you can build simple, scalable data APIs. What's inside Define a GraphQL schema for relational and document databases Implement GraphQL types using both the schema language and object constructor methods Optimize GraphQL resolvers with data caching and batching Design GraphQL fragments that match UI components' data requirements Consume GraphQL API queries, mutations, and subscriptions with and without a GraphQL client library About the reader For web developers familiar with client-server applications. About the author Samer Buna has over 20 years of experience in software development including front-ends, back-ends, API

design, and scalability. Table of Contents PART 1- EXPLORING GRAPHQL 1 Introduction to GraphQL 2 Exploring GraphQL APIs 3 Customizing and organizing GraphQL operations PART 2 - BUILDING GRAPHQL APIs 4 Designing a GraphQL schema 5 Implementing schema resolvers 6 Working with database models and relations 7 Optimizing data fetching 8 Implementing mutations PART 3 - USING GRAPHQL APIs 9 Using GraphQL APIs without a client library 10 Using GraphQL APIs with Apollo client

**Pro MERN Stack** - Vasan Subramanian 2019-05-11

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

**Pro MERN Stack** - Vasan Subramanian 2017-03-02

Assemble the complete stack required to build a modern web app using React: MongoDB (a NoSQL database) and Express (a framework for web application servers), which runs on Node (JavaScript on the server side), complement React very nicely. This book will also cover many other tools that go into building a complete web application: React Router, React-Bootstrap, Redux, Babel, and webpack. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. But it has its shortcomings such as lack of support for SEO friendly server-side rendering and being too prescriptive by being a framework. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack. What You Will Learn Discover the details of React, the React Way, and how to get the maximum out of this library See the basics of MongoDB, Express, and Node, enough to build a web app Work with other tools complementary to React, including React-Bootstrap and React Router Use the tools required to build JavaScript based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

**Modern Full-Stack Development** - Frank Zammetti 2020-03-29

Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your

servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

[React Native for Mobile Development](#) - Akshat Paul 2019-06-12

Develop native iOS and Android apps with ease using React Native. Learn by doing through an example-driven approach, and have a substantial running app at the end of each chapter. This second edition is fully updated to include ES7 (ECMAScript 7), the latest version of React Native (including Redux), and development on Android. You will start by setting up React Native and exploring the anatomy of React Native apps. You'll then move on to Redux data flow, how it differs from flux, and how you can include it in your React Native project to solve state management differently and efficiently. You will also learn how to boost your development by including popular packages developed by the React Native community that will help you write less; do more. Finally, you'll learn to how write test cases using Jest and submit your application to the App Store. React Native challenges the status quo of native iOS and Android development with revolutionary components, asynchronous execution, unique methods for touch handling, and much more. This book reveals the the path-breaking concepts of React.js and acquaints you with the React way of thinking so you can learn to create stunning user interfaces. What You'll Learn Build stunning iOS and Android applications Understand the Redux design pattern and use it in your project Interact with iOS and android device capabilities such as addressbook, camera, GPS and more with your apps Test and launch your application to the App Store Who This Book Is For Anyone with JavaScript experience who wants to build native mobile applications but dreads the thought of programming in Objective-C or Java. Developers who have experience with JavaScript but are new or not acquainted to React Native or ReactJS.

**Learning React** - Kirupa Chinnathambi 2018-04-26

Learning React A hands-on guide to building web applications using React and Redux As far as new web frameworks and libraries go, React is quite the runaway success. It not only deals with the most common problems developers face when building complex apps, it throws in a few additional tricks that make building the visuals for such apps much, much easier. What React isn't, though, is beginner-friendly and approachable. Until now. In Learning React , author Kirupa Chinnathambi brings his fresh, clear, and very personable writing style to help web developers new to React understand its fundamentals and how to use it to build really performant (and awesome) apps. The only book on the market that helps you get your first React app up and running in just minutes, Learning React is chock-full of colorful illustrations to help you visualize difficult concepts and practical step-by-step examples to show you how to apply what you learn. Build your first React app Create components to define parts of your UI Combine components into other components to build more complex UIs Use JSX to specify visuals without writing full-fledged JavaScript Deal with maintaining state Work with React's way of styling content Make sense of the mysterious component lifecycle Build multi-page apps using routing and views Optimize your React workflow using tools such as Node, Babel, webpack, and others Use Redux to make managing your app data and state easy Contents at a Glance 1 Introducing React 2 Building Your First React App 3 Components in React 4 Styling in React 5 Creating Complex Components 6 Transferring Properties 7 Meet JSX... Again! 8 Dealing with State in React 9 Going from Data to UI in React 10 Events in React 11 The Component Lifecycle 12 Accessing DOM Elements in React 13 Setting Up Your React Dev Environment 14 Working with External Data in React 15 Building an Awesome Todo List App in React 16 Creating a Sliding Menu in React 17 Avoiding Unnecessary Renders in React 18 Creating a Single-Page App in React

Using React Router 19 Introduction to Redux 20 Using Redux with React  
**JavaScript for Modern Web Development** - Alok Ranjan 2020-04-18  
Beginner to Expert in Web development with JavaScript: From HTML to React-Redux KEY FEATURES - Acquire web development skills to build independent applications - Understand the basics of HTML, CSS, JavaScript, React and Redux - Create build beautiful applications using HTML, CSS, JavaScript, React and Redux - Learn how to debug and unit test your applications properly to build good end products - Follow best practices to write good quality code and build performant applications DESCRIPTION This book will take you on a complete journey of learning web development, starting right with the basics. The book begins with the history of web development and JavaScript, how it has evolved over these years, and how it still keeps growing with new features. Next, you will learn the basic pillars of web development - HTML, CSS, and JavaScript. You will learn about the functional, object-oriented programming and asynchronous behaviour, and how JavaScript provides for these. Empowered with the basics, you will proceed to learn the new features of JavaScript, ES2015, and the latest ES2019. Next, you will apply your learning to build a real application to see how the Web takes shape. At the end, you will also have an introductory section on ReactJS, one of the modern frameworks for UI development and also develop a simple weather application using React. You will be introduced to Redux as the state container for React applications. This book will conclude with an introductory look at additional topics which can be taken up to become a professional and in building enterprise level applications. WHAT WILL YOU LEARN By the end of the book, you will be building real web applications to put your knowledge to practice. This book introduces all the concepts to get started with web application development. To further excel in this field, you really need to practice by building a lot many applications, implementing your own ideas or imitating existing websites. Also remember to practice additional examples provided in the code bundle of the book to master this field. WHO THIS BOOK IS FOR This book can be used by people who are completely new to software development and want to get into front-end web development by starting from basics. This book can also be used by JavaScript users for a quick reference to the fundamentals of HTML, CSS, JS, and learn ReactJS with Redux, as well as the new features in JavaScript ES2019. Table of Contents 1. History of JS and how it has revolutionized web development 2. HTML: Creating Web Content 3. CSS: Making content beautiful 4. JavaScript Programming: Making application Interactive 5. Functional programming with JavaScript 6. Object-Oriented JavaScript 7. Asynchronous Programming 8. What's new in ES2019 JavaScript 9. Building an application with JavaScript 10. Debugging JavaScript Applications 11. Unit test automation 12. Build and Deploy an Application 13. JavaScript Best Practices 14. Introduction to React 15. Building an application with React 16. State Management in React applications 17. Debugging, Testing, and Deploying React applications 18. What is next - for becoming a pro?

[React Native Blueprints](#) - Emilio Rodriguez Martinez 2017-11-08

Develop real world Android and iOS applications with the power of React native. About This Book Build quirky and fun projects from scratch and become efficient with React Native Learn to build professional Android and iOS applications with your JavaScript skills Use Isomorphic principles to build mobile apps that offer a native user experience Who This Book Is For This book is for developers who want to use their JavaScript knowledge for mobile development. Prior knowledge of React will be beneficial. What You Will Learn Structure React Native projects to ease maintenance and extensibility Optimize a project to speed up development Make a React Native project production-ready Use external modules to speed up the development and maintenance of your projects Explore the different UI and code patterns to be used for iOS and Android Get to know the best practices when building apps in React Native In Detail Considering the success of the React framework, Facebook recently introduced a new mobile development framework called React Native. With React Native's game-changing approach to hybrid mobile development, you can build native mobile applications that are much more powerful, interactive, and faster by using JavaScript This project-based guide takes you through eight projects to help you gain a sound understanding of the framework and helps you build mobile apps with native user experience. Starting with a simple standalone groceries list app, you will progressively move on to building advanced apps by adding connectivity with external APIs, using native features, such as the camera or microphone, in the mobile device, integrating with state management libraries such as Redux or MobX, or leveraging React Native's performance by building a full-featured game. This book covers

the entire feature set of React Native, starting from the simplest (layout or navigation libraries) to the most advanced (integration with native code) features. By the end of this book, you'll be able to build professional Android and iOS applications using React Native. Style and approach This project-based guide consists of 8 projects. Each project is a standalone project that covers the core techniques and concepts in each project.

**Practical Enterprise React** - Devlin Duldulao 2021-09-25

Learn to write real-world enterprise apps using the fundamentals of React and the most popular React libraries. Knowing the basics of React is important, but what is more important is knowing the common third-party libraries and how to use them. This book features popular libraries such as React Router v6 for route navigation, Redux with Saga and Thunk for state management, and Formik with Yup for form and input validations. You'll also work with Material UI 5 (the next major version of the most popular UI component library in React), Axios as the HTTP client library, JWT auth for client app authentication, and TypeScript. Finally, you'll learn to deploy the app to Netlify, and containerize the React app to ship it as a standalone container instance or in a Kubernetes cluster. Become a more effective React developer by using what is available out there instead of trying to reinvent the wheel. This book reveals how to save time and money, and build better apps for your clients. Get practical with React enterprise app development and enhance your career. What You'll Learn Use TypeScript in React Work with Redux, Saga, and Thunk, along with TypeScript Validate forms and inputs without writing too much code Use Material UI Secure the React app by building a login form and protecting the routes Who This Book Is For Those interested in writing React enterprise apps. Knowledge of HTML, CSS and JavaScript/TypeScript is required, and experience with JavaScript libraries/frameworks would be useful.

**ASP.NET Core 5 and React** - Carl Rippon 2021-01-08

Build fully functional, cloud-ready, and professional web applications using the latest features in the .NET 5 framework and React.js with Microsoft Azure Key Features Explore the new features of .NET 5 with this updated edition of ASP.NET Core 5 and React Discover strategies for adopting a full-stack development approach, clean architecture techniques, and development best practices Learn how to manage data, design and package applications, and secure your web apps Book Description Microsoft's .NET framework is a robust server-side framework, now even more powerful thanks to the recent unification of the Microsoft ecosystem with the .NET 5 framework. This updated second edition addresses these changes in the .NET framework and the latest release of React. The book starts by taking you through React and TypeScript components for building an intuitive single-page application and then shows you how to design scalable REST APIs that can integrate with a React-based frontend. Next, you'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. As you progress through the chapters, you'll learn how to use React with TypeScript to make the frontend robust and maintainable and cover key ASP.NET 5 features such as API controllers, attribute routing, and model binding to build a sturdy backend. In addition to this, you'll explore API security with ASP.NET 5 identity and authorization policies and write reliable unit tests using both .NET and React, before deploying your app on Azure. By the end of this book, you'll have gained the knowledge you need to enhance your C# and JavaScript skills and build full-stack, production-ready applications with ASP.NET 5 and React. What you will learn Build RESTful APIs with .NET 5 using API controllers Secure REST APIs with identity and authorization policies Create strongly typed, interactive, and function-based React components using Hooks Understand how to style React components using Emotion.js Perform client-side state management with Redux Run a range of automated tests on the frontend and backend Implement continuous integration and continuous delivery (CI/CD) processes in Azure using Azure DevOps Who this book is for If you're a web developer looking to get up to speed with full-stack web application development with .NET Core and React, this book is for you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered.

**RxJS in Action** - Paul Daniels 2017-07-20

Summary RxJS in Action gives you the development skills you need to create reactive applications with RxJS. This book is full of theory and practical examples that build on each other and help you begin thinking in a reactive manner. Foreword by Ben Lesh, Project lead, RxJS 5. Purchase of the print book includes a free eBook in PDF, Kindle, and

ePub formats from Manning Publications. About the Technology On the web, events and messages flow constantly between UI and server components. With RxJS, you can filter, merge, and transform these streams directly, opening the world of data flow programming to browser-based apps. This JavaScript implementation of the ReactiveX spec is perfect for on-the-fly tasks like autocomplete. Its asynchronous communication model makes concurrency much, much easier. About the Book RxJS in Action is your guide to building a reactive web UI using RxJS. You'll begin with an intro to stream-based programming as you explore the power of RxJS through practical examples. With the core concepts in hand, you'll tackle production techniques like error handling, unit testing, and interacting with frameworks like React and Redux. And because RxJS builds on ideas from the world of functional programming, you'll even pick up some key FP concepts along the way. What's Inside Building clean, declarative, fault-tolerant applications Transforming and composing streams Taming asynchronous processes Integrating streams with third-party libraries Covers RxJS 5 About the Reader This book is suitable for readers comfortable with JavaScript and standard web application architectures. About the Author Paul P. Daniels is a professional software engineer with experience in .NET, Java, and JavaScript. Luis Atencio is a software engineer working daily with Java, PHP, and JavaScript platforms, and author of Manning's Functional Programming in JavaScript. Table of Contents PART 1 -

UNDERSTANDING STREAMS Thinking reactively Reacting with RxJS Core operators It's about time you used RxJS PART 2 - OBSERVABLES IN PRACTICE Applied reactive streams Coordinating business processes Error handling with RxJS PART 3 MASTERING RXJS Heating up observables Toward testable, reactive programs RxJS in the wild

**Beginning React** - Andrea Chiarelli 2018-07-25

Take your web applications to a whole new level with efficient, component-based UIs that deliver cutting-edge interactivity and performance. Key Features Elaborately explains basics before introducing advanced topics Explains creating and managing the state of components across applications Implement over 15 practical activities and exercises across 11 topics to reinforce your learning Book Description Projects like Angular and React are rapidly changing how development teams build and deploy web applications to production. In this book, you'll learn the basics you need to get up and running with React and tackle real-world projects and challenges. It includes helpful guidance on how to consider key user requirements within the development process, and also shows you how to work with advanced concepts such as state management, data-binding, routing, and the popular component markup that is JSX. As you complete the included examples, you'll find yourself well-equipped to move onto a real-world personal or professional frontend project. What you will learn Understand how React works within a wider application stack Analyze how you can break down a standard interface into specific components Successfully create your own increasingly complex React components with HTML or JSX Correctly handle multiple user events and their impact on overall application state Understand the component lifecycle to optimize the UX of your application Configure routing to allow effortless, intuitive navigation through your components Who this book is for If you are a frontend developer who wants to create truly reactive user interfaces in JavaScript, then this is the book for you. For React, you'll need a solid foundation in the essentials of the JavaScript language, including new OOP features that were introduced in ES2015. An understanding of HTML and CSS is assumed, and a basic knowledge of Node.js will be useful in the context of managing a development workflow, but is not essential.

**React Quickly** - Azat Mardan 2017-08-20

Summary React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches you the concepts you need with lots of examples, tutorials, and a large main project that gets built throughout the book. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Successful user interfaces need to be visually interesting, fast, and flowing. The React.js JavaScript library supercharges view-heavy web applications by improving data flow between UI components. React sites update visual elements efficiently and smoothly, minimizing page reloads. React is developer friendly, with a strong ecosystem to support the dev process along the full application stack. And because it's all JavaScript, React is instantly familiar. About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js. Following carefully chosen and clearly explained examples, you'll learn React development using your existing JavaScript and web

dev skills. You'll explore a host of different projects as you learn about web components, forms, and data. What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript. About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node, and author of several books on JavaScript, Node, React, and Express. Table of Contents PART 1 - REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project: Menu component Project: Tooltip component

Project: Timer component PART 2 - REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project: Building a bookstore with React Router Project: Checking passwords with Jest Project: Implementing autocomplete with Jest, Express, and MongoDB APPENDIXES Appendix A - Installing applications used in this book Appendix B - React cheatsheet Appendix C - Express.js cheatsheet Appendix D - MongoDB and Mongoose cheatsheet Appendix E - ES6 for success *Fullstack React* - Accomazzo Anthony 2017-03 LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today