

Apollo Client

Shubham Jain, Mathew Dony

The Road to GraphQL Robin Wieruch, 2018-11-05 The Road to GraphQL is your personal journey to master pragmatic GraphQL in JavaScript. The book is full with applications you are going to build along the way with React.js and Node.js. Afterward, you will be able to implement full-stack JavaScript applications. I wrote the The Road to GraphQL over the last year, while building several GraphQL applications for my clients and for myself. During this time, I came to understand the practical genius of GraphQL, and how it dramatically improves communication in client-server architectures. Not only does it improve the interface between the client and the server, it also enhances client-side state management by eliminating remote data management. Sophisticated GraphQL libraries like Apollo Client provide powerful features like caching, optimistic UI, and data prefetching for free. This book covers the fundamentals of GraphQL itself, as well as its ecosystem. 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 GraphQL APIs, nor an in-depth guide about the internals of the GraphQL specification. Instead, its purpose is to journey through learning GraphQL with JavaScript the pragmatic way, building client and server applications yourself. The book covers lots of facets about GraphQL in JavaScript that are important for building modern applications, without just throwing the libraries like Apollo at problems before experiencing them. It starts with the basic HTTP requests to perform GraphQL queries first, then moves on to using dedicated GraphQL libraries for it. You will even get the chance to implement your own GraphQL client library, so you understand how these libraries work under the hood. There are no hidden abstractions in this book, just plenty of fundamentals for JavaScript, React.js, Node.js, and GraphQL. Requirements To get the most out of this book, you

should be familiar with the basics of web development, which includes some knowledge of HTML, CSS and JavaScript. You will also need to be familiar with the term API, because they are discussed frequently. I encourage you to join the official Slack Group for the book, help or get help from others. React On the client-side, this book uses React to teach about GraphQL in JavaScript. My other book called The Road to learn React teaches you all the fundamentals about React. It also teaches you to make the transition from JavaScript ES5 to JavaScript ES6. The book is available for free and after having read the Road to learn React, you should possess all the knowledge to implement the GraphQL client-side application with this book. Node On the server-side, this book uses Node with Express as library to teach about GraphQL in JavaScript. You don't need to know much about those technologies before using them for your first GraphQL powered applications. The book will guide you through the process of setting up a Node application with Express and shows you how to weave GraphQL into the mix. Afterward, you should be able to consume the GraphQL API provided by your server-side application in your client-side application.

Learning GraphQL Eve Porcello,Alex Banks,2018-08-09 Why is GraphQL the most innovative technology for fetching data since Ajax? By providing a query language for your APIs and a runtime for fulfilling queries with your data, GraphQL presents a clear alternative to REST and ad hoc web service architectures. With this practical guide, Alex Banks and Eve Porcello deliver a clear learning path for frontend web developers, backend engineers, and project and product managers looking to get started with GraphQL. Youâ??ll explore graph theory, the graph data structure, and GraphQL types before learning hands-on how to build a schema for a photo-sharing application. This book also introduces you to Apollo Client, a popular framework you can use to connect GraphQL to your user interface. Explore graph theory and review popular graph examples in use today Learn how

GraphQL applies database querying methods to the internet. Create a schema for a PhotoShare application that serves as a roadmap and a contract between the frontend and backend teams. Use JavaScript to build a fully functioning GraphQL service and Apollo to implement a client. Learn how to prepare GraphQL APIs and clients for production.

Full Stack GraphQL Applications William Lyon, 2022-09-27 GraphQL radically improves the efficiency of web APIs, reducing the number of requests and the volume of data in-transit within your web applications. You can amplify the benefits of GraphQL by adjusting your stack to match GraphQL's more natural representation of your data as a graph. In *Fullstack GraphQL Applications with GRANDstack* you'll learn to build graph-aware end-to-end web applications using GraphQL, React, Apollo, and the Neo4j graph database. about the technology Over-fetching or under-fetching data from REST APIs makes your applications slow and unreliable, especially over weak mobile network connections. The GraphQL query language offers a solution with a new API paradigm, reducing loads by constructing precise graph-based data requests. By adapting your application's design and data store to leverage graphs throughout the stack, you decrease friction by using a consistent data model improving developer productivity, performance and maintainability. The combination of GraphQL, React, Apollo, and Neo4j Database, aka the GRANDstack, provides an easily adoptable end-to-end solution perfect for building fullstack GraphQL applications. about the book *Fullstack GraphQL Applications with GRANDstack* teaches you to leverage the power of GraphQL to create modern APIs that streamline data loads by allowing client applications to selectively fetch only the data required. GRANDstack.io contributor and GraphQL Foundation member William Lyon teaches you everything you need to know to design, deploy, and maintain a GraphQL API from scratch and create graph-aware fullstack web applications. In this project-driven

book, you'll build a complete business reviews application using the cutting-edge GRANDstack, learning how the different parts fit together. Chapter-by-chapter, you'll master creating a GraphQL service with Apollo Server, modelling a GraphQL API with GraphQL type definitions, installing the Neo4j Database on different platforms, and more. By the time you're done, you'll be able to deploy all of the components of a serverless fullstack application in a secure and cost-effective way that takes full advantage of GraphQL's performance capabilities. Along the way, you'll also get tips for applying these techniques to other stacks.

what's inside Building the backend functionality of a GraphQL application Handling authentication and authorization with GraphQL Implementing pagination and rate limiting in a GraphQL API Create a basic frontend application using React and Apollo Client about the reader Aimed at developers comfortable building web applications using tools like Django, Rails, or MEAN stack and standard SQL-based databases. No experience with GraphQL or graph databases required. about the author William Lyon is a software developer at Neo4j, working on integrations with other technologies and helping users build applications with Neo4j. He is the creator and maintainer of neo4j-graphql.js, a JavaScript library for creating GraphQL APIs, and is a contributor to GRANDstack.io. He serves as Neo4j's representative on the GraphQL Foundation.

Production Ready GraphQL Marc-Andre Giroux, 2020-03-23 While GraphQL is a technology mainly driven by the needs of clients, there is a clear lack of resources on how to build reliable GraphQL servers. Over the last few years, I helped build and maintain some of the biggest GraphQL APIs out there at both Shopify and GitHub. During those years, I also worked with various companies with their adoption of GraphQL. From my experiences with GraphQL, I've observed the good, the bad, and the ugly. This led to many talks and blog posts on the subject, but still found that

teams and individuals willing to use GraphQL in a pragmatic way lacked the resources to do so. This is what lead me to write this book: A collection of learnings and good practices when building GraphQL schemas at scale. Every language and every GraphQL implementation does things slightly differently. This book is completely language agnostic and instead focuses on concepts and patterns that are achievable no matter how you're building a GraphQL server. Think of it as a complete journey of what goes into building a GraphQL API, from design, to architectures, to implementation, and even documentation.

Learn React with TypeScript Carl Rippon, 2023-03-03 Take your first step in building modern-day component-based web apps using the latest features and capabilities of React and TypeScript with this easy-to-follow guide

Key Features

- Learn to use different React hooks with TypeScript
- Explore different styling approaches while building React web apps
- Gain experience in using React Dev Tools to debug components

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

Reading, navigating, and debugging a large frontend codebase is a major issue faced by frontend developers. This book is designed to help web developers like you learn about ReactJS and TypeScript, both of which power large-scale apps for many organizations. This second edition of Learn React with TypeScript is updated, enhanced, and improved to cover new features of React 18 including hooks, state management libraries, and features of TypeScript 4. The book will enable you to create well-structured and reusable React components that are easy to read and maintain, leveraging modern design patterns. You'll be able to ensure that all your components are type-safe, making the most of TypeScript features, including some advanced types. You'll also learn how to manage complex states using Redux and how to interact with a GraphQL web API. Finally, you'll discover how to write robust unit tests for React components using Jest. By the end of

the book, you'll be well-equipped to use both React and TypeScript. What you will learnGain first-hand experience of TypeScript and its productivity featuresUnderstand how to transpile your TypeScript code into JavaScript for running in a browserBuild a React frontend codebase with hooksInteract with REST and GraphQL web APIsDesign and develop strongly typed reusable componentsCreate automated component testsWho this book is for This book is for experienced frontend developers looking to build large scale web applications using React and TypeScript. Intermediate knowledge of JavaScript, HTML and CSS is a prerequisite.

Full-Stack Web Development with GraphQL and React Sebastian Grebe, 2022-02-28 Unleash the power of GraphQL, React 17, Node, and Express to build a scalable and production-ready application from scratch to be deployed on AWS Key FeaturesBuild full-stack applications with modern APIs using GraphQL and React HooksIntegrate Apollo into React and build frontend components using GraphQLImplement a self-updating notification pop-up with a unique GraphQL feature called SubscriptionsBook Description React and GraphQL, when combined, provide you with a very dynamic, efficient, and stable tech stack to build web-based applications. GraphQL is a modern solution for querying an API that represents an alternative to REST and is the next evolution in web development. This book guides you in creating a full-stack web application from scratch using modern web technologies such as Apollo, Express.js, Node.js, and React. First, you'll start by configuring and setting up your development environment. Next, the book demonstrates how to solve complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads using Sequelize. You'll then build a complete Graphbook from scratch. While doing so, you'll cover the tricky parts of connecting React to the backend, and maintaining and synchronizing state. In addition to this, you'll also learn how to write Reusable React components

and use React Hooks. Later chapters will guide you through querying data and authenticating users in order to enable user privacy. Finally, you'll explore how to deploy your application on AWS and ensure continuous deployment using Docker and CircleCI. By the end of this web development book, you'll have learned how to build and deploy scalable full-stack applications with ease using React and GraphQL. What you will learn

- Build a GraphQL API by implementing models and schemas with Apollo and Sequelize
- Set up an Apollo Client and build frontend components using React
- Write Reusable React components and use React Hooks
- Authenticate and query user data using GraphQL
- Use Mocha to write test cases for your full-stack application
- Deploy your application to AWS using Docker and CircleCI

Who this book is for This React GraphQL book is for web developers familiar with React and GraphQL who want to enhance their skills and build full-stack applications using industry standards like React, Apollo, Node.js, and SQL at scale while learning to solve complex problems with GraphQL.

JavaScript Everywhere Adam D. Scott, 2020-02-06 JavaScript is the little scripting language that could. Once used chiefly to add interactivity to web browser windows, JavaScript is now a primary building block of powerful and robust applications. In this practical book, new and experienced JavaScript developers will learn how to use this language to create APIs as well as web, mobile, and desktop applications. Author and engineering leader Adam D. Scott covers technologies such as Node.js, GraphQL, React, React Native, and Electron. Ideal for developers who want to build full stack applications and ambitious web development beginners looking to bootstrap a startup, this book shows you how to create a single CRUD-style application that will work across several platforms. Explore GraphQL's simple process for querying data Learn about shared authentication for APIs, web apps, and native applications Build performant web applications with React and Styled

Components Use React Native to write cross-platform applications for iOS and Android that compile to native code Learn how to write desktop applications with Electron

Hands-On Full-Stack Web Development with GraphQL and React Sebastian Grebe, 2019-01-31
Unearth the power of GraphQL, React, Apollo, Node, and Express to build a scalable, production ready application Key Features Build full stack applications with modern APIs using GraphQL and Apollo Integrate Apollo into React and build frontend components using GraphQL Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions Book Description React, one of the most widely used JavaScript frameworks, allows developers to build fast and scalable front end applications for any use case. GraphQL is the modern way of querying an API. It represents an alternative to REST and is the next evolution in web development. Combining these two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL. We'll focus on solving complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads. Our client, and server will be powered by Apollo. Finally we will go ahead and build a complete Graphbook. While building the app, we'll cover the tricky parts of connecting React to the back end, and maintaining and synchronizing state. We'll learn all about querying data and authenticating users. We'll write test cases to verify the front end and back end functionality for our application and cover deployment. By the end of the book, you will be proficient in using GraphQL and React for your full-stack development requirements. What you will learn Resolve data from multi-table database and system architectures Build a GraphQL API by implementing models and schemas with Apollo and Sequelize Set up an Apollo Client and build front end components using React Use Mocha to test your full-stack application Write complex React

components and share data across themDeploy your application using DockerWho this book is for
The book is for web developers who want to enhance their skills and build complete full stack applications using industry standards. Familiarity with JavaScript, React, and GraphQL is expected to get the most from this book.

Modern Web Applications with Next.js Shubham Jain, Mathew Dony, 2023-11-24 Elevate Your Web Development with Next.js Mastery! **KEY FEATURES** ● Comprehensive Next.js coverage. ● Hands-on examples and practical exercises. ● Advanced techniques for web app development. **DESCRIPTION** This practical handbook takes you on a journey from foundational principles to advanced techniques, offering a complete exploration of Next.js, the cutting-edge framework for building performant and dynamic web applications. Beginning with an introductory overview of web applications utilizing Next.js and JavaScript, the book reintroduces React to ensure a strong footing in the core concepts. It then delves into the fundamentals of Next.js, providing insights into the latest version's core advancements and optimizations. It will help you explore the intricacies of Next.js applications, including an in-depth look at optimizing performance. It will then move on to demystify routing in Next.js, mastering state management, and implementing RESTful and GraphQL APIs. By the end of it, you will understand the usage of diverse databases and discover the significance of client-side and server-side rendering in Next.js applications. This book also covers crucial aspects of securing applications using NextAuth. It will help you learn to develop a complete CRUD application, gaining hands-on experience and insight into deployment architectures that can turn your projects into scalable and production-ready applications. **WHAT WILL YOU LEARN** ● Gain a comprehensive understanding of web applications utilizing the latest version of Next.js and JavaScript, and refresh yourself with React's core concepts. ● Learn how to optimize Next.js

applications, by improving their speed and efficiency for better user experiences. ● Understand the intricate mechanism of routing in Next.js to create dynamic web applications. ● Implement advanced State Management techniques within your Next.js applications for efficient data handling. ● Learn the implementation of both RESTful and GraphQL APIs by their integration into Next.js applications. ● Explore the usage of various databases and understand how to employ them effectively within Next.js applications. ● Learn the practical usage of client-side and server-side rendering in Next.js applications. ● Develop a complete CRUD application with Next.js through practical application of the learning provided throughout the book to build real-world projects. ● Understand the architecture and best practices for deploying Next.js applications, ensuring a seamless transition from development to production. WHO IS THIS BOOK FOR? This book caters to the needs of developers operating at an intermediate to advanced level in web development and software engineering. Proficiency in JavaScript and a solid grasp of React fundamentals are recommended prerequisites for an optimal learning experience. Those with prior exposure to web development concepts and tools will find this book a valuable resource, augmenting their understanding and practical application of the content within. TABLE OF CONTENTS 1. Introduction to Web Applications with Next.js and JavaScript 2. Recall React 3. Next.js Fundamentals 4. Next.js 13 5. Optimizing Next.js Applications 6. Understanding Routing in Next.js 7. State Management in Next.js 8. Restful and GraphQL API Implementation 9. Using Different Types of Databases 10. Understanding Rendering in Next.js Applications 11. Securing App with Next Auth 12. Developing a CRUD Application with Next.js 13. Exploring Deployment Architecture in Next.js Applications Index

GraphQL in Action Samer Buna, 2021-02-21 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
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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

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 Features Build React applications at scale using effective React patterns and best practices Explore React features such as Hooks, the Context API, and the Suspense API Extend React's integration with React Native for building cross-platform mobile apps and games Book 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 learn Create 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.

Architecting Vue.js 3 Enterprise-Ready Web Applications Solomon Eseme,2023-04-14 A comprehensive, best-practices guide to building Vue.js apps that can scale along with your business Purchase of the print or Kindle book includes a free PDF eBook Key Features Implement Vue.js 3 to create Vue.js application with improved performance Explore the Vue.js 3 composition API in-depth while building your enterprise application Ensure the scalability and maintainability of your apps with different types of testing Book Description Building enterprise-ready Vue.js apps entails following best practices for creating high-performance and scalable applications. Complete with step-by-step explanations and best practices outlined, this Vue.js book is a must-read for any developer who works with a large Vue.js codebase where performance and scalability are indispensable. Throughout this book, you'll learn how to configure and set up Vue.js 3 and the composition API and use it to build real-world applications. You'll develop the skills to create reusable components and scale performance in Vue.js 3 applications. As you progress, the book guides you in scaling performance with asynchronous lazy loading, image compression, code splitting, and tree shaking. Furthermore, you'll see how to use the Restful API, Docker, GraphQL,

and different types of testing to ensure that your Vue.js 3 application is scalable and maintainable. By the end of this book, you'll be well-versed in best practices for implementing Restful API, Docker, GraphQL, and testing methods to build and deploy an enterprise-ready Vue.js 3 application of any scale. What you will learn Scale your app's performance in Vue.js 3 using best practices Implement testing strategies for large-scale Vue.js codebase Manage large file structures using the micro frontend architecture Discover the industry standard to Dockerize and deploy an enterprise Vue.js 3 web application Use GraphQL to deliver scalable and high-performing applications Explore various testing libraries and how to integrate them with Vue.js 3 Who this book is for The Vue.js 3 book is for Vue.js developers and professional frontend developers who want to build high-performance, production-grade, and highly scalable enterprise Vue.js apps from design to deployment. The book assumes working knowledge of Vue.js and JavaScript programming.

Full Stack Development with Angular and GraphQL Ahmed Bouchefra, 2022-03-30 Design and develop full-stack and cross-platform Angular applications using the latest web tooling, development techniques, and modern app architecture Key Features Implement scalability and maintainability to your full stack apps using Angular modules and components Get the complete source code of the example social network app built using GraphQL and Apollo Manage your Angular applications state using Apollo client for a seamless user experience Book Description GraphQL is an alternative to traditional REST technology for querying Web APIs. Together with Angular and TypeScript, it provides a tech stack option for building future-proof web applications that are robust and maintainable at any scale. This book leverages the potential of cutting-edge technologies like GraphQL and Apollo and helps Angular developers add it to their stack. Starting with introducing full-stack development, you will learn to create a monorepo project with Lerna and NPM

Workspaces. You will then learn to configure Node.js-based backend using GraphQL, Express, and Apollo Server. The book will demonstrate how to build professional-looking UIs with Angular Material. It will then show you how to create Web APIs for your frontend with GraphQL. All this in a step-by-step manner. The book covers advanced topics such as local state management, reactive variables, and generating TypeScript types using the GraphQL scheme to develop a scalable codebase. By the end of this book, you'll have the skills you need to be able to build your full-stack application. What you will learn

- Create a monorepo project with Lerna and NPM workspaces
- Add realtime support with GraphQL subscriptions
- Build a frontend with a modular architecture and Material Design UI components to consume the GraphQL API
- Use GraphQL Code Generator to generate types and code for a type-safe and scalable code base
- Create Angular modules and smart and dumb components and share data between them
- Use Apollo Client features such as client-side queries and reactive variables for local state management

Who this book is for The book is aimed at Angular developers who wish to learn about GraphQL for taking their frontend knowledge in full stack web development. The book assumes intermediate knowledge of Angular, however, full stack development is not required.

Gatsby: The Definitive Guide Preston So, 2021-09-09 Get the definitive guide on Gatsby, the JavaScript framework for building blazing fast websites and applications. Used by Nike, Costa Coffee, and other companies worldwide, Gatsby is emerging as one of the key technologies in the Jamstack (JavaScript, APIs, and markup) ecosystem. With this comprehensive guide, you'll learn how to architect, build, and deploy Gatsby sites independently or with CMSs, commerce systems, and other data sources. Author Preston So begins by showing you how to set up a Gatsby site from scratch. From there, you'll learn ways to use Gatsby's declarative rendering and GraphQL API,

build complex offline-enabled sites, and continuously deploy Gatsby sites on a variety of platforms, including Gatsby Cloud. Discover how Gatsby integrates with many data sources and plug-ins Set up, configure, and architect Gatsby sites using Gatsby's CLI, React, JSX, and GraphQL with high performance out of the box Build an independent Gatsby site based on Markdown and data- and content-driven Gatsby sites that integrate with CMSs and commerce platforms Deploy Gatsby sites with full CI/CD and test coverage on a variety of platforms, including Netlify, Vercel, and Gatsby Cloud

Real-World Next.js Michele Riva, 2022-02-28 Learn how to use Next.js for building web apps without compromising performance, user experience, and developer happiness Key Features Develop scalable web applications using Next.js Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with any headless CMS Deploy Next.js on different platforms, such as Vercel, DigitalOcean, and AWS, or on your own server Book Description Next.js is a scalable and high-performance React.js framework for modern web development and provides a large set of features, such as hybrid rendering, route prefetching, automatic image optimization, and internationalization, out of the box. If you are looking to create a blog, an e-commerce website, or a simple website, this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience. Starting with the basics of Next.js, the book demonstrates how the framework can help you reach your development goals. You'll realize how versatile Next.js is as you build real-world applications with step-by-step explanations. This Next.js book will guide you in choosing the right rendering methodology for your website, securing it, and deploying it to different providers, all while focusing on performance and developer happiness. By the end of the book, you'll be able to design, build, and deploy modern architectures

using Next.js with any headless CMS or data source. What you will learn

- Get up to speed with Next.js essentials and learn how to build apps quickly
- Understand how to create scalable Next.js architectures
- Choose between different rendering strategies, such as client-side rendering (CSR), static site generation (SSG), server-side rendering (SSR), and incremental static regeneration (ISR)
- Write unit tests and integration tests in your Next.js application
- Discover the powerful routing system and Next.js' built-in components
- Design and build modern architectures with Next.js using GraphQL or any headless CMS

Who this book is for This book is for web developers who want to improve their React skills by building scalable and maintainable full-stack applications using the modern Next.js web framework. Intermediate-level knowledge of ES6+, React, Node.js, and REST is assumed.

React and React Native Adam Boduch, Roy Derks, 2020-04-30

- Get up to speed with React, React Native, GraphQL and Apollo for building cross-platform native apps with the help of practical examples
- Key Features
- Covers the latest features of React such as Hooks, Suspense, NativeBase, and Apollo in this updated third edition
- Get to grips with the React architecture for writing easy-to-manage web and mobile applications
- Understand GraphQL and Apollo for building a scalable backend for your cross-platform apps

Book Description React and React Native, Facebook's innovative User Interface (UI) libraries, are designed to help you build robust cross-platform web and mobile applications. This updated third edition is improved and updated to cover the latest version of React. The book particularly focuses on the latest developments in the React ecosystem, such as modern Hook implementations, code splitting using lazy components and Suspense, user interface framework components using Material-UI, and Apollo. In terms of React Native, the book has been updated to version 0.62 and demonstrates how to apply native UI components for your

existing mobile apps using NativeBase. You will begin by learning about the essential building blocks of React components. Next, you'll progress to working with higher-level functionalities in application development, before putting this knowledge to use by developing user interface components for the web and for native platforms. In the concluding chapters, you'll learn how to bring your application together with a robust data architecture. By the end of this book, you'll be able to build React applications for the web and React Native applications for multiple mobile platforms. What you will learn

Delve into the React architecture, component properties, state, and context
Get to grips with React Hooks for handling functions and components
Implement code splitting in React using lazy components and Suspense
Build robust user interfaces for mobile and desktop apps using Material-UI
Write shared components for Android and iOS mobile apps using React Native
Simplify layout design for React Native apps using NativeBase
Write GraphQL schemas to power web and mobile apps
Implement web and mobile components that are driven by Apollo

Who this book is for This book is for any JavaScript developer who wants to start learning how to use Facebook's UI libraries, React and React Native, for mobile and web application development. Although no prior knowledge of React is needed, working knowledge of JavaScript programming will help you understand the concepts covered in the book more effectively.

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

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