

# Using GraphQL

## Heitor Ramon Ribeiro

**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

*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 FeaturesBuild full stack applications with modern APIs using GraphQL and ApolloIntegrate Apollo into React and build frontend components using GraphQLImplement a self-updating notification pop-up with a unique GraphQL feature called SubscriptionsBook 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 learnResolve data from multi-table database and system architecturesBuild a GraphQL API by implementing models and schemas with Apollo and SequelizeSet up an Apollo Client and build front end components using ReactUse Mocha to test your full-stack applicationWrite 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.

**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.

**Craft GraphQL APIs in Elixir with Absinthe** Bruce Williams, Ben Wilson, 2018 Your domain is rich and interconnected, and your API should be too. Upgrade your web API to GraphQL, leveraging its flexible queries to empower your users, and its declarative structure to simplify your code. Absinthe is the GraphQL toolkit for Elixir, a functional programming language designed to enable massive concurrency atop robust application architectures. Written by the creators of Absinthe, this book will help you take full advantage of these two groundbreaking technologies. Build your own flexible, high-performance APIs using step-by-step guidance and expert advice you won't find anywhere else. GraphQL is a new way of structuring and building web services, and the result is transformational. Find out how to offer a more tailored, cohesive experience to your users, easily aggregate data from different data sources, and improve your back end's maintainability with Absinthe's declarative approach to defining how your API works. Build a GraphQL-based API from scratch using Absinthe, starting from core principles. Learn the type system and how to expand your schema to suit your application's needs. Discover a growing ecosystem of tools and utilities to understand, debug, and document your API. Take it to production, but do it safely with solid best practices in mind. Find out how complexity analysis and persisted queries can let you support your users flexibly, but responsibly too. Along the way, discover how Elixir makes all the difference for a high performance, fault-tolerant API. Use asynchronous and batching execution, or write your own custom add-ons to extend Absinthe. Go live with subscriptions, delivering data over websockets on top of Elixir (and Erlang/OTP's) famous solid performance and real-time capabilities. Transform your applications with the powerful combination of Elixir and GraphQL, using Absinthe. What You Need: To follow along with the book, you should have Erlang/OTP 19+ and Elixir 1.4+ installed. The book will guide you through setting up a new Phoenix application using Absinthe.

**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 led 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.

[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.

*Full Stack GraphQL Applications* William Lyon, 2022-09-27 Build hyper-fast and hyper-efficient web applications with GraphQL! This practical, comprehensive guide introduces the powerful GRANDStack for developing full stack web applications based in graph data structures. In Full Stack GraphQL Applications you will learn how to: Build backend functionalities for GraphQL applications Model a GraphQL API with GraphQL type definitions Utilize Neo4j as a backend database Handle authentication and authorization with GraphQL Implement pagination and rate limiting in a GraphQL API Develop a GraphQL service with Apollo Server Install Neo4j Database on different platforms Create a basic frontend application using React and Apollo Client Deploy a full stack GraphQL application to the cloud The GraphQL query language radically reduces over-fetching or under-fetching of data by constructing precise graph-based data requests. In Full Stack GraphQL Applications you'll learn how to build graph-aware web applications that take full advantage of GraphQL's amazing efficiency. Neo4j's William Lyon teaches you everything you need to know to design, deploy, and maintain a GraphQL API from scratch. He reveals how you can build your web apps with GraphQL, React, Apollo, and Neo4j Database, aka "the GRANDstack," to get maximum performance out of GraphQL. About the technology The GraphQL API query language radically streamlines data exchanges with backend servers by representing application data as easy-to-understand graphs. You can amplify GraphQL's benefits by using graph-aware tools and data stores, like React, Apollo, and Neo4j, throughout your application. A full stack graph approach provides a consistent data model end to end, reducing friction in data fetching and increasing developer productivity. About the book Full Stack GraphQL Applications teaches you to build graph-aware web applications using GraphQL, React, Apollo, and the Neo4j database, collectively called "the GRANDstack." Practical, hands-on examples quickly develop your understanding of how the GRANDstack fits together. As you go, you'll create and deploy to the cloud a full-featured web application that includes search, authentication, and more. Soon, you'll be ready to deploy end-to-end applications that take full advantage of GraphQL's outstanding performance. What's inside Building a GraphQL backend using Neo4j Authentication and authorization with GraphQL Pagination and GraphQL abstract types A basic frontend application using React and Apollo Client Deploying to the cloud with Netlify, AWS Lambda, Auth0, and Neo4j Aura About the reader For full stack web developers. No experience with GraphQL or graph databases required. About the author William Lyon is a Staff Developer Advocate at Neo4j and blogger at lyonwj.com. Table of Contents PART 1 GETTING STARTED WITH FULL STACK GRAPHQL 1 What is full stack GraphQL? 2 Graph thinking with GraphQL 3 Graphs in the

database 4 The Neo4j GraphQL Library PART 2 BUILDING THE FRONTEND 5 Building user interfaces with React 6 Client-side GraphQL with React and Apollo Client PART 3 FULL STACK CONSIDERATIONS 7 Adding authorization and authentication 8 Deploying our full stack GraphQL application 9 Advanced GraphQL considerations

*Building GraphQL API Services with ASP.NET Core* Rully Yulian MF, 2020-08-10 This book discusses the development of API Services using GraphQL on top of the ASP.NET Core framework. GraphQL is a language for querying or manipulating resources or data against data sources such as databases. In addition, graphql also provides a runtime for processing queries and other graphql objects. The language and runtime were originally built by Facebook in 2012 to be used internally. In 2015 graphql began to be published in open source to the public. GraphQL provides another alternative for developing api services besides those based on REST. Several leading companies including Facebook itself already use graphql such as github, pinterest, airbnb, paypal, twitter, and others. There are several things that distinguish graphql from rest services, including: - GraphQL provides data according to your needs, nothing less and nothing more. Output data properties or columns can be determined dynamically, in contrast to rest services that have determined data from any column to be displayed. - GraphQL provides one endpoint for all resources or all data provided, in contrast to rest api that provides resources or data through multiple endpoints or multiple controllers. - The data response displayed from graphql will be structurally the same as the data structure requested by the client. - GraphQL can provide multiple resources or data in one request. Rest services should provide it with multiple urls. The topics described in this book start from the explanation of graphql & asp.net core architecture; installation of the necessary libraries; creation of asp.net core web in visual studio; use of ef core for database access sql server & postgresql; use of queries and mutations; use of tools for graphql access; use of logging and data loaders; real-time services with subscription; implementation of asp.net core identity; use of jwt authentication; deployment; and many more. The discussion in this book is carried out in stages, so that it is hoped that after studying it, readers will have sufficient skills or abilities to build GraphQL-based services with ASP.NET Core according to the needs in the field. Hopefully this book can be another alternative as a learning resource for exercises, tutorials, or a reference for those who want to learn the backend programming of GraphQL API Services with ASP.NET Core that is connected to SQL Server and PostgreSQL databases.

**GraphQL API Design** Matthias Biehl, 2018-01-30 Want to build APIs like Facebook? Since Facebook's framework for building APIs, GraphQL, has become publicly available, this ambition seems to be within reach for many companies. And that is great. But first, let's learn what GraphQL really is and - maybe even more importantly - let's figure out how to apply GraphQL to build APIs that consumers love. Do you like to learn hands-on? In this book, we take a hands-on approach to learning GraphQL. We first explore the concepts of the two GraphQL languages using examples. Then we start writing some code for our first GraphQL API. We develop this API step by step, from creating a schema and resolving queries, over

mocking data and connecting data sources all the way to developing mutations and setting up event subscriptions. Are your API consumers important to you? This book shows you how to apply a consumer-oriented design process for GraphQL APIs, so you can deliver what your consumers really want: an API that solves their problems and offers a great developer experience. Do you want to enable the API consumers so they can build great apps? This book explains the GraphQL query language, which allows the API consumers to retrieve data, write data and get notified when data changes. More importantly, you let them decide, which data they really need from the API. Do you want to make your API easy and intuitive to use? This book shows you how to use the GraphQL schema language to define a type system for your API, which serves as a reference documentation and helps your API consumers write queries that are syntactically correct. Do you want to profit from what has worked for others? This book provides a collection of best practices for GraphQL that have worked for other companies, e.g. regarding pagination, authentication and caching. REST vs. GraphQL: Which one is better? GraphQL and REST are competing philosophies for building APIs. It is not in the scope of this book to compare or discuss the two approaches. The focus of this book is on a hands-on approach for learning GraphQL.

*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. You'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

*Craft GraphQL APIs in Elixir with Absinthe* Bruce Williams, Ben Wilson, 2018-03-27 Your domain is rich and interconnected, and your API should be too. Upgrade your web API to GraphQL, leveraging its flexible queries to empower your users, and its declarative structure to simplify your code. Absinthe is the GraphQL toolkit for Elixir, a functional programming language designed to enable massive concurrency atop robust application architectures. Written by the creators of Absinthe, this book will help you take full advantage of these two groundbreaking technologies. Build your own flexible, high-performance APIs using step-by-step guidance and expert advice you won't find anywhere else. GraphQL is a new way of structuring and building web services, and the result is transformational. Find out how to offer a more tailored,

cohesive experience to your users, easily aggregate data from different data sources, and improve your back end's maintainability with Absinthe's declarative approach to defining how your API works. Build a GraphQL-based API from scratch using Absinthe, starting from core principles. Learn the type system and how to expand your schema to suit your application's needs. Discover a growing ecosystem of tools and utilities to understand, debug, and document your API. Take it to production, but do it safely with solid best practices in mind. Find out how complexity analysis and persisted queries can let you support your users flexibly, but responsibly too. Along the way, discover how Elixir makes all the difference for a high performance, fault-tolerant API. Use asynchronous and batching execution, or write your own custom add-ons to extend Absinthe. Go live with subscriptions, delivering data over websockets on top of Elixir (and Erlang/OTP's) famous solid performance and real-time capabilities. Transform your applications with the powerful combination of Elixir and GraphQL, using Absinthe. What You Need: To follow along with the book, you should have Erlang/OTP 19+ and Elixir 1.4+ installed. The book will guide you through setting up a new Phoenix application using Absinthe.

*Full Stack Development with Angular and GraphQL* Ahmed Boucheфра, 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.

**Black Hat GraphQL** Nick Aleks, Dolev Farhi, 2023-05-23 Written by hackers for hackers, this hands-on book teaches penetration testers how to identify vulnerabilities in apps that use GraphQL, a data query and manipulation language for APIs adopted by major companies like Facebook and GitHub. Black Hat GraphQL is for anyone interested in learning how to break and protect GraphQL APIs with the aid of offensive security testing. Whether you're a penetration tester, security analyst, or software engineer, you'll learn how to attack GraphQL APIs, develop hardening procedures, build automated security testing into your development pipeline, and validate controls, all with no prior exposure to GraphQL required. Following an introduction to core concepts, you'll build your lab, explore the difference between GraphQL and REST APIs, run your first query, and learn how to create custom queries. You'll also learn how to: Use data collection and target mapping to learn about targets Defend APIs against denial-of-service attacks and exploit insecure configurations in GraphQL servers to gather information on hardened targets Impersonate users and take admin-level actions on a remote server Uncover injection-based vulnerabilities in servers, databases, and client browsers Exploit cross-site and server-side request forgery vulnerabilities, as well as cross-site WebSocket hijacking, to force a server to request sensitive information on your behalf Dissect vulnerability disclosure reports and review exploit code to reveal how vulnerabilities have impacted large companies This comprehensive resource provides everything you need to defend GraphQL APIs and build secure applications. Think of it as your umbrella in a lightning storm.

**Beginning GraphQL** Brian Kimokoti, 2018-07-26 Over-fetching and under-fetching data can negatively impact the performance of your web application. Future-proof your API structure and handle key development requirements by correctly defining types and schemas in GraphQL. Key Features Includes server-side implementations using GraphQL.js, Apollo, Graphcool, and Prisma Understand an example client-side implementation of GraphQL in ReactJS using Apollo Implement over 20 practical activities and exercises across 5 topics that enable you to efficiently use GraphQL in production Book Description Though fairly new, GraphQL is quickly rising in popularity when it comes to API development. This book will teach you everything you need to know to start building efficient APIs with GraphQL. You'll begin by learning to create a simple scaffold application using Node.js and Express. Then, you'll explore core GraphQL concepts and study how GraphQL integrates with other frameworks in real-life business applications. By the end of the book, you will be able to successfully create efficient client-server REST-like applications. What you will learn Understand core GraphQL concepts that can be used across different languages Understand the overall structure of GraphQL applications Use Apollo GraphQL for both server and client JavaScript applications Understand the key differences between GraphQL and REST Who this book is for This book is ideal for developers who want to broaden their understanding of API development. Prior experience to JavaScript is required, with any prior work with React or Node.js being beneficial.

Learning GraphQL and Relay Samer Buna, 2016-08-31 Build data-intensive React applications with ease using GraphQL and Relay. About This Book\* Take your React applications to the next level with GraphQL and Relay\* Make your React applications speak to the back end\* Explore the concepts of data fetching, data handling, and more\* Build data-intensive applications\* Learn to deploy your applications, which are compliant with GraphQL and Relay. Who This Book Is For This book is perfect for those who have no prior experience or familiarity with Relay and/or GraphQL. You should be comfortable writing NodeJS applications on a MongoDB database with REST APIs as well as applications on the client-side using React and ES2015. What You Will Learn\* Understand what problem GraphQL solves and how it differs from traditional REST architectures\* Create a GraphQL server\* Develop modular and maintainable GraphQL code\* Grasp how to define GraphQL mutations\* Comprehend how to define GraphQL queries\* Modify a GraphQL server to be Relay-compliant\* Develop a Relay client-side application with ReactJS that consumes a GraphQL endpoint. In Detail The book begins by building a solid foundation in the GraphQL specification (defining and executing data queries, and creating data sources) and then swiftly moves to how a data layer can be implemented for your web application using Relay. For years, REST has been the de facto choice for implementing APIs and while REST is a great option, it's not without its problems. Facebook solved many of these problems by developing the GraphQL specification and made it open source along with RelayJS, a React library for querying a server that implements the GraphQL specification. This book will take you from having no prior experience or just a familiarity with Relay and/or GraphQL to being able to build a production-ready application using both. One of the major challenges faced by React is data initialization, which is solved by GraphQL and Relay. While GraphQL is a data querying specification, Relay is the data fetching library that implements communicating with the GraphQL server to build data-intensive applications. We cover various concepts such as creating data containers, data masking, and more. Towards the end of the book, we will empower you to build a production-ready application.. You will also understand how you can deploy your GraphQL/Relay application on Heroku. By the end of the book, you'll have gained enough experience building an app with GraphQL and Relay to feel comfortable and to obtain mastery.

*Building Vue.js Applications with GraphQL* Heitor Ramon Ribeiro, 2021-01-29 Take your Vue.js knowledge to the next level by understanding full-stack development concepts and exploring modern web technologies such as AWS Amplify, GraphQL, and Quasar Framework. Key Features Build a fully functional Vue.js web app and learn how it integrates with GraphQL. Transform your chat application into a Progressive Web Application (PWA) for web deployment. Discover practical recipes, exploring the capabilities of the GraphQL API for full-stack development using Quasar Framework. Book Description Since its release by Facebook in 2012, GraphQL has taken the internet by storm. Huge companies such as Airbnb and Audi have started to adopt it, while small to medium-sized companies are now recognizing the potential of this query-based API. GraphQL may seem strange at first, but as you start to read about and experience more of it, you won't want to use REST

APIs anymore. With the recipes in this book, you will learn how to build a complete real-time chat app from scratch. Starting by creating an AWS Amplify environment, you will delve into developing your first GraphQL Schema. You will then learn how to add the AppSync GraphQL client and create your first GraphQL mutation. The book also helps you to discover the simplicity and data fetching capabilities of GraphQL that make it easy for front-end developers to communicate with the server. You will later understand how to use Quasar Framework to create application components and layouts. Finally, you will find out how to create Vuex modules in your application to manage the app state, fetch data using the GraphQL client, and deploy your application to the web. By the end of this book, you'll be well versed in proof-of-concept full-stack applications that explore the power of GraphQL with AWS Amplify, and you'll be able to use Quasar Framework to create your Vue applications. What you will learn

- Set up your Vue.js projects with Vue CLI and explore the power of Vue components
- Discover steps to create functional components in Vue.js for faster rendering
- Become familiar with AWS Amplify and learn how to set up your environment
- Understand how to create your first GraphQL schema
- Use Quasar Framework to create simple and effective interfaces
- Discover effective techniques to create queries for interacting with data
- Explore Vuex for adding state management capabilities to your app
- Discover techniques to deploy your applications effectively to the web

Who this book is for This book is for intermediate-level Vue.js developers who want to take their first step toward full-stack development. Prior knowledge of Vue.js and JavaScript is required before getting started with this book.

Visual Design of GraphQL Data Thomas Frisendal, 2018-09-08 Get an introduction to the visual design of GraphQL data and concepts, including GraphQL structures, semantics, and schemas in this compact, pragmatic book. In it you will see simple guidelines based on lessons learned from real-life data discovery and unification, as well as useful visualization techniques. These in turn help you improve the quality of your API designs and give you the skills to produce convincing visual communications about the structure of your API designs. Finally, Visual Design of GraphQL Data shows you how to handle GraphQL with legacy data as well as with Neo4j graph databases. Spending time on schema quality means that you will work from sharper definitions, which in turn leads to greater productivity and well-structured applications. What You Will Learn

- Create quality GraphQL data designs
- Avoid structural mistakes
- Draw highly communicative property graph diagrams of your APIs

Who This Book Is For Web developers and data architects who work with GraphQL and other APIs to build modern applications.

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 Features:

- Build full-stack applications with modern APIs using GraphQL and React Hooks
- 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 and GraphQL, when combined, provide you with a very dynamic, efficient, and

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