

Roy Chan

Full Stack Engineer

Summary

Highly skilled and experienced Full stack Engineer with 8+ years of experience.

With a proven track record of delivering robust and scalable web applications, I bring a deep understanding of software engineering principles and best practices.

I excel in designing and implementing efficient and secure backend architectures.

On the frontend, I am proficient in modern frameworks and libraries, ensuring seamless user experiences through responsive and intuitive interfaces.

Experience

Software Engineer

Info Driven Solutions - Singapore - Remote

April 2022 – January 2024

- Developed and maintained multiple projects including video creator and content, dashboard, analyze platforms using React, Redux, Next.js, Jest, Node.js, and Express.
- Employed Svelte to build highly performant, reactive components with a small footprint, resulting in a 20% decrease in load times and improved user experience.
- Led the development of a reactive user interface for a cryptocurrency website MVP, leveraging SvelteKit and TypeScript to expedite the development process.
- Refactored a front-end application by introducing Material-UI components and reengineering the complete architecture to make the code readable, scalable, and optimized for specific usage.
- Refactored a back-end application by switching to AWS DynamoDB, Dynamoose, NestJS, and GraphQL stack and reengineering the complete architecture to make the code clean, readable, scalable, and optimized for specific usage.
- Maintained code coverage quality for all new components built close to 100%, emphasizing test-driven development.
- Integrated SendGrid email service and completed the migration from Apollo client to SWR.
- Implemented a scalable module for back-end communication, allowing query management and uniform query/mutation execution with customized result processing.
- Upgraded front-end applications with Next.js and built and maintained components reusable based on the design system.
- Fixed some bugs and improved user features on both the front end and back end.
- Developed and unit-tested software that met the business and technical design requirements.

Contact

dreamhighpassionhigh@gmail.com

31 Boon Teck Rd, Singapore

Skills

- HTML5, CSS3, Bootstrap
- Javascript, TypeScript, jQuery
- Node.js
- Svelte, SvelteKit
- React, Redux, Next.js
- Vue.js, Vuex, Nuxt.js
- Angular
- C#
- ASP.NET/ASP.NET Core
- PHP/Laravel
- Python/Django
- TailwindCSS
- Sass, Less
- tRPC
- RESTful APIs, GraphQL
- Prisma
- PostgreSQL, MySQL
- MongoDB
- Redis
- Strapi
- Angular
- Jest, Cypress
- Git
- Docker
- DevOps
- Agile, Scrum, Kanban
- TDD
- AWS
- Microservices
- Firebase, Supabase
- OAuth
- Socket.IO
- Web3
- React Native
- Git, Github

Full Stack Engineer

JB Cole – UK - Remote

August 2020 – April 2022

- Developed a Quora-like site using React, React Hooks front end with GraphQL for a home-care service company based in Australia.
- Implemented mobile-responsive front-end pages with React, Bootstrap, and SCSS.
- Used Apollo-boost to consume GraphQL API.
- Engaged back-end development in Nest.js and PostgreSQL.
- Integrated third-party APIs like Sendgrid.

Front end Developer

Airbnb – US - Remote

September 2019 – June 2020

- Participated in architecting Airbnb's Front-end codebase.
- Made transitions between routes smooth as butter and a step change ~5x faster.
- Minimized DOM Nodes for Performance. Won ~200ms with simple HTML refactoring. Frames Per Second metric improved by 6 - 20%.
- Revamped Restful API using GraphQL API.
- Used React hooks and the Lazy-Loading concept to accelerate initial and component loading time and also avoid unnecessary re-rendering. So I cut the initial loading times by 25%.
- Created accessible, responsive, and functional UI to allow visitors to have the same perfect UX, so increased the number of 5 stars and UX/UI reviews by 135%.

Front end Developer

Axension Studios – Singapore

November 2018 – September 2019

- Participated in architecting Airbnb's Front-end codebase.
- Developed a web application to build interactive maps for festivals, events, and destinations.
- Built a website with server-side rendering enabled for optimized SEO and performance.
- Rebuilt the front end from scratch.
- Built multiple CRUD operations, authorization, logging, and more.
- Integrated APIs such as Google Maps, Mailchimp, and more.
- Improved the security of the application by preventing SQL injections and XSS attacks.
- Converted PSD files to prototypes or fully functional websites; using HTML/CSS, JavaScript, WordPress, and PHP.

Education

Bachelor's degree in Computer Science

Singapore University of Technology and Design

October 2014 – September 2017

[The Research on Front-end JavaScript Frameworks for Master Data Management Application Development](#)

Activities

Software Engineering Internship – Summer 2016

Hudson River Trading - US - Remote

2016

- Reviewed codes and script written by previous developers; learning from examples and improvement on existing code.
- Reviewed and suggested opinions on how certain UI/UX interfaces of the company could be improved, and carried out plans for improvement.

Certifications

JavaScript Algorithms and Data Structures

February 2017

JavaScript, Algorithms, Data Structures, Object Oriented Programming,
Functional Programming

Responsive Web Design

January 2018

HTML, CSS, Accessibility, Responsive Design

Front End Development Libraries

October 2018

Bootstrap, Sass, jQuery, React, Redux

Back End Development and APIs

April 2019

JavaScript, Node.js, npm, Express.js, MongoDB, Mongoose, APIs

React - The Complete Guide (incl Hooks, React Router, Redux)

February 2022

React, Functional React (Hooks), React Router, Redux, JavaScript ES6, React
Animations, React Testing, React with TypeScript

Next.js & React - The Complete Guide (incl. Two Paths!)

March 2022

Next.js, File-based Routing, Static Generation, Incremental Static Generation,
Server-side Rendering, Next.js API implementation, NextAuth

Node.js - The Complete Guide (MVC, REST APIs, GraphQL, Deno)

August 2022

React Native - The Practical Guide [2022]

August 2022

React Native, Hooks, React Navigation, Styling React Native Apps, Redux
and Context, Authentication and Http Requests, Native Features (Camera,
Location, SQLite), Local and Push Notifications