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Ricardo Roque

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TECHNICAL SKILLS

Frontend: JavaScript ES6, React, CSS, HTML5, jQuery, AngularJS, Parcel.js, Webpack

Backend: Express, Node.js, PostgreSQL, Redis, MongoDB/Mongoose, MySQL, Cassandra

Tools: AWS EC2, Docker, Babel, New Relic, Grunt, Mocha, Chai.js, Jest, Enzyme, CircleCi, Git

EXPERIENCE

Vacay (Project) | Backend Engineer | <https://github.com/vacay-io/Product-Info-Service>

Tech stack: Node.js, Express, PostgreSQL, Redis, AWS, New Relic, Siege, Cassandra

- Optimized backend for the property description microservice of a property rental web app
- Refactored legacy codebase and implemented PostgreSQL to scale for a database of 10 million records
- Diagnosed performance bottlenecks by utilizing Siege for stress testing and monitoring with New Relic
- Implemented Redis caching and indexing to reduce response time latency to 4 ms and increase throughput to 2200 requests per second (RPS) in dev environment, more than double the initial goal
- Deployed microservice on AWS EC2 with throughput over 400 RPS, more than 400% the initial goal

Airfec (Project) | Full-Stack Engineer | <https://github.com/airfec/Reviews-Service>

Tech stack: React, Docker, CSS, Webpack, Node.js, Express, MongoDB, Babel, Jest, CircleCi, AWS

- Created a standalone full-stack reviews microservice for a property reservation web app
- Maintained app modularity by designing components with microservices architecture
- Paginated the reviews module, implemented search functionality, and engineered a dynamic rating system that renders average user ratings in various categories
- Engineered a RESTful API in Express/Node.js to relay data from a MongoDB database to the client
- Integrated Docker containerization and deployed on AWS EC2 t2 micro instance to reduce overhead and maintain consistency in the production environment

PatientTime (Project) | Full-Stack Engineer | <https://github.com/rroque98/PatientTime>

Tech stack: React, Styled Components, Parcel.js, Jest, react-testing-library, Node.js, Express, MySQL

- Designed a prototype of a web app designed to help physicians keep track of daily appointments
- Built a full-stack prototype in MySQL, Express/Node.js, and React (MEAN) with RESTful API
- Utilized styled components to scope styles to individual components and reduce class name bugs

EBTResourceFinder (Project) | Software Engineer | <https://github.com/rroque98/EBTResourceFinder>

Tech stack: React, CSS, HTML, Parcel.js, Jest, react-testing-library, Babel, Prettier, google-maps-react

- Created a map-based interface to help EBT cardholders locate local resources that accept EBT benefits
- Integrated Google Maps with Geocoding API to display nearby resources based on location
- Filtered and displayed resources based on different categories for a more user-friendly experience
- Maintained modularity with React components in order to make code easier to debug and manage

EDUCATION

Hack Reactor, *Advanced Software Engineering Immersive*

2018-2018

University of California, Berkeley School of Optometry, *Optometry*

2015-2017

University of California, Berkeley, *B.A. Psychology*

2009-2014