


Elderen Lee

Full Stack Software Engineer

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TECHNICAL SKILLS

Front End	Back End	Database	Testing	Dev Tools
JavaScript (ES6+)	Node.js	MySQL	Jest, Mocha, Chai	Git, Bash
jQuery	Express.js	SQLite	Postman	Babel JS
React, Redux	REST API	PostgreSQL	Deployment	Webpack, Parcel
React Native	Socket.io	MongoDB	Heroku	Artillery.io
HTML5, CSS3	Nginx	Sequelize	AWS (EC2)	Loader.io
Bootstrap	Redis	Mongoose	Docker	Chrome Dev Tools

SOFTWARE APPLICATIONS

WiFi Chat – React Native, Node.js, Socket.io, MongoDB, Artillery.io, AWS EC2

Mobile real-time chat app between devices sharing the same Wi-Fi network

- Made reusable React components that displays a public chat lobby and multiple private chat rooms.
- Built server-side cache and client-side storage to reduce message latency and instantly render content.
- Deployed to Apple App Store without any development library, allowing access to iOS native modules.
- Increased RPS from 800 to 5000 by implementing Nginx to scale horizontally, and Redis to cache DB queries.

CloudBnB – React, Node.js, Express.js, PostgreSQL, Loader.io, AWS EC2

Lodging service website scaled to handle large volume traffic

- Migrated legacy database from SQLite to Postgres for better future scalability and more functionality.
- Optimized for t2 micro usage by batch seeding asynchronously ensuring success for future clustering.
- Pooled database connections, reducing latency by 70% and improving throughput two-fold.
- Used Jest to implement Test Driven Development techniques providing reliable, stable software.

Hackstarter – React, Node.js, Express.js, MySQL, Heroku

Full Stack web application providing interactive project financing

- Developed an interactive front-end microservice with CRUD functionality using React and Node.js.
- Built controllers, models, and routes to modularize the backend and ensure maintainability / scalability.
- Designed efficient MySQL schemas to better manage storage space by joining related data tables.
- Improved work efficiency by following Scrum methods in a team of 5 using Git version control and Trello.
- Implemented responsive web design using CSS Flexbox and CSS Grid for multiple device compatibility.

WORK EXPERIENCE

Wedgewood Inc. | *Real Estate Acquisitions Analyst* 2018

- Researched foreclosed single-family residences across Western US and organized data in company app.

GeneDx | *Molecular Lab Technologist* 2016

- Analyzed DNA from 100,000+ human blood samples and managed info in databases for cancer testing.

EDUCATION

Hack Reactor Advanced Software Engineering Immersive 2019

Virginia Tech Bachelor of Science, Biology (Genetics) 2016

Related Coursework: Multivariable Calculus, Statistics, Differential Equations, Intro to Java, Programming in C++, Engineering Exploration, Engineering Design, Engineering Economy, Software Design, Python 101 & 102