

Brian Lee

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TECHNICAL SKILLS

Front-End | JavaScript (ES5 and ES6), React, jQuery, HTML, CSS3, Sass, Redux, Next.js, Material UI, Chakra UI

Back-End | Node.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API Development, Sequelize, NGINX

Testing/Deployment | Jest, Mocha, Chai, React Testing Library, Loader.io, K6, New Relic, AWS, Vercel, Docker

Developer Tools | git, npm, Webpack, babel, Agile methodologies

SOFTWARE ENGINEERING APPLICATIONS

Full Stack Developer – Unlocking Wellness (*PostgreSQL, Express.js, Next.js, Node.js, Firebase, AWS, Vercel*)

A healthcare portal connecting underserved communities to qualified providers github.com/briancee-gh/wellness

- Integrated Firebase user authentication to track patients and providers and to persist each individual patient's preferred providers between refreshing and user sessions
- Designed and implemented an interactive chatbot that allows users to quickly navigate through the website using either user inputted typed commands or preset commands
- Adopted a mobile-first design mindset to create a sleek, mobile-friendly user interface that achieved a time to interactive of 0.8 seconds.

Back End Engineer – Atelier (*PostgreSQL, Express.js, Node.js, AWS, NGINX*)

A RESTful API capable of servicing a high traffic e-commerce website github.com/briancee-gh/atelier

- Scaled microservice from 1,000 RPS with a single server instance to handle 10,000 RPS with 12ms latency by deploying 4 EC2 micro instances of Node/Express servers behind a NGINX load balancer with caching
- Identified and resolved system bottlenecks with k6, New Relic, and Loader.io to prioritize high ROI optimizations
- Reduced database latency from 200ms to 4ms by indexing columns with btree and optimizing query read strings

Front End Developer – CUBE (*React, Express.js, Node.js, Webpack, Babel, AWS*)

A redesigned, modern retail shopping web application github.com/briancee-gh/cube

- Reduced largest contentful paint time from 15 seconds to 1.4 seconds by implementing code-splitting, lazy-loading, and production-mode webpack bundling
- Utilized React Higher Order Components to enable user click tracking across the entire application to capture user interests and provide analytical statistics
- Simplified state management to enforce a single source of truth by implementing React Context and useContext hooks

EXPERIENCE

Dentist | Belmont Dental Group – Belmont, CA

Nov 2018 - Jun 2021

- Diagnosed, repaired and documented dental diseases, injuries and malformations
- Excelled in patient care, listening and communication

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive – Remote

Jun 2021 - Sept 2021

Loma Linda University | Doctor of Dental Surgery – Loma Linda, CA

Aug 2014 - Jun 2018

Graduated in top 10% of class, Awards: Dean's List

University of California, Irvine | B.S. Biological Sciences – Irvine, CA

Sept 2008 - Jun 2012

Relevant coursework: Single Variable Calculus, Awards: Dean's List