

Douglas William Perez

Full Stack Engineer

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TECHNICAL SKILLS

Front End: JavaScript ES6, HTML5, React.js, Redux, React Native, Gatsby, jQuery, Styled Components, Sass.

Back End: Node.js, Express, Nginx, GraphQL, MongoDB, PostgreSQL, MySQL, SQLite, REST API, Redis.

DevOps & TDD: AWS EC2, Netlify, Docker, Heroku, Git, Axios, Babel, Webpack, Jest, Enzyme, Mocha, Chai, Loader.io, K6.

SOFTWARE ENGINEERING APPLICATIONS

Front End Engineer | [ZenRent: Reviews](#) | [Source](#) | React, Jest, Enzyme, Docker, AWS (EC2), Node.js, MongoDB

- Built a **MERN stack** web application for peer-to-peer home sharing. Responsible for the reviews **microservice**.
- Initiated and automated unit and integration tests with **Jest** and **Enzyme** to guide test-driven development.
- Used React **Styled Components**, **Flexbox** and **CSS Grid** to achieve superior responsiveness.
- Served as the **Project Manager** for ZenRent; Kept the team focused, on schedule and motivated.

Front End Developer | [ESL MiniGames](#) | [Source](#) | jQuery, React, JS ES5, Node.js, Flexbox

- An entirely self-directed passion project built from scratch, designed specifically for my students.
- Educational aid kept students engaged and mentally active during the transition to remote education.
- Features six different **jQuery** and **React** games that allowed my students to practice various English concepts.

Full Stack Developer | [JS Unscramble](#) | [Source](#) | React, CSS Grid, MongoDB, Node.js, Express, Babel, Webpack

- Designed **MERN stack** web app that gamifies the process of learning JS fundamentals, inspired by Duolingo.
- Open source module allows users to contribute their unique solutions to thousands of unsolved problems scraped from the web using **Axios**.
- Developing **React Native** version exclusively for tablets.

Back End Engineer | [Brightstack.io](#) | [Source](#) | PostgreSQL, Redis Node.js, Jest, Enzyme, Docker, AWS EC2, React

- Optimized performance while scaling up the **Postgres** database by a factor of .
- Employed **Loader.io** and **K6** to improve load speeds from 338.72 ms to 3.28 ms with a 0% error rate.
- Performance gains attributed to horizontal scaling, using **Nginx** as a load balancer and sending requests to an array of **EC2** servers. Further optimization through **Node.js** drain events to CSV files and the use of **Redis**.

EXPERIENCE

Freelance Software Engineer | [Alex4Hope Memorial](#) | [Source](#) | San Francisco, CA 02/2021 – 03/2021

- Designed a custom memorial site using **jQuery**, per the detailed requests from my client.
- Utilized **CSS Grid** to create an elegant and responsive collage to memorialize Alex.
- Technologies: jQuery, JS ES5, CSS Grid, HTML5, Bootstrap.

Science and Math Teacher | Rise Immersion Subject English | Wuhan, China 05/2018 – 08/2020

- During lockdown, I used my very own ESL MiniGames as an educational aid in the virtual classroom.

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive | San Francisco, CA 11/2020 – 02/2020

- Successfully completed the highly selective and rigorous 12-week full stack engineering immersive.
- Over 800 hours of Computer Science and JavaScript curriculum modeled on the software engineering industry.

University of California, Berkeley | BA in Political Science | Berkeley, CA 08/2009 – 12/2014

- Recipient of the prestigious merit-based **Leadership Award Scholarship**.

PERSONAL

- When I'm not working, my wife and I spend time with our two dogs. We go hiking and trail running together.
- Personal interests include tech, video games, fitness, finance, political economy and world travel.