

# 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.

**Freelance Software Engineer** | [Alex4Hope Memorial](#) | [Source](#) | jQuery, JS ES5, CSS Grid, HTML5, Bootstrap

- 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.

**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 9.
- 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

**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.

**English Teacher** | High School | Colombia & Spain 10/2016 - 04/2018

- Adjusted and adapted to an entirely different work culture, as the sole foreign teacher at the center.

### 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 10/2016 - 12/2014

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

### PERSONAL

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