

# Douglas William Perez : Front End Engineer

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## TECHNICAL SKILLS

**Front End:** JavaScript ES6, HTML5, React.js, Redux, React Native, jQuery, CSS Grid, Flexbox, Styled Components.

**Back End:** PostgreSQL, MySQL, SQLite, MongoDB, Redis, Node.js, Express, Nginx.

**Other:** Docker, AWS EC2, Jest, Enzyme, Mocha, Chai, Loader.io, K6, Git, Axios, Babel, Webpack.

## SOFTWARE ENGINEERING APPLICATIONS

[ZenRent Home Rentals](#) | Front End Engineer | 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 micro-service.
- 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.

[ESL MiniGames](#) | Front End Developer | 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.

[Alex4Hope Memorial](#) | Front End Developer | jQuery, JS ES5, CSS Grid, HTML

- 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.

[JS Unscramble](#) | Full Stack Developer | 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**.
- **React Native** version exclusively for tablets currently in development.

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

- Optimized performance while scaling up the **Postgres** database by a factor of 10,000.
- 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 English Immersion | 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

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** | *Undergraduate* | Berkeley, CA

2014

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

## PERSONAL

- Worked as a financial advisor after graduating from UC Berkeley.
- Personal interests include tech, personal finance, fitness, world travel and current events.