

Douglas William Perez

Full Stack Engineer

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TECHNICAL SKILLS

Front End: React, React Native, Redux, MobX, Next.js, Gatsby, JavaScript, TypeScript, jQuery, HTML, CSS, SCSS, Three.js.

Back End: Node.js, Express, Python, FastAPI, Django, MongoDB, Nginx, PostgreSQL, MySQL, Redis, GraphQL, REST APIs.

DevOps & Testing: AWS EC2, Docker, Axios, Git, JSON, XML, Enzyme, Mocha, Chai, Selenium WebDriver, Jest, K6.

WORK EXPERIENCE

Front End Developer | [Trivie, Inc.](#) | Dallas, Texas | React Native, TypeScript, MobX, Jest, K6 07/2021 - 08/2022

- Trivie helps employees retain workforce training through **AI**, cognitive science techniques and **gamification**.
- Our clients include Fortune 500 companies/organizations: GE, AARP, McDonald's, Subway and Anheuser-Busch.
- I implemented new features and cleared hundreds of bugs in our Trivie **React Native mobile** and **web app**.
- Built-out user **React Native** App and Dashboard (**React**), providing comprehensive stats on user performance.

Freelance Software Engineer | [Multiple Applications](#) | [Source](#) | San Francisco, CA 02/2020 - 06/2021

- Built many freelance and personal projects: a full stack eCommerce store, a memorial site and eLearning apps.
- **Technologies:** React, Node, Express, FastAPI, Gatsby, Next.js, MongoDB, Postgres, AWS, Less, and Sass.

SOFTWARE ENGINEERING APPLICATIONS

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

- Designed a **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 practice problems scraped from the web using **Axios**.
- Developing **React Native** version exclusively for tablets.

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, Git, JS ES6, HTML5, CSS3

- An entirely self-directed passion project built from scratch using **React** and **jQuery**, designed for my students.
- Educational aid kept students engaged and mentally active during the transition to remote education.

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 an order of magnitude (10^1).
- Employed **Loader.io** and **K6** to improve load speeds from 338.72 ms to 3.28 ms with a 0% error rate.
- Performance gains are attributed to horizontal scaling, using **Nginx** as a load balancer and sending requests to an array of **EC2** servers. Further optimization through **Node** drain events to CSV files and the use of **Redis**.

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive | San Francisco, CA 11/2020 - 02/2021

- 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 love going hiking and camping.
- Personal interests include tech, video games, reading, fitness, finance, political economy and world travel.