

# Alexander George

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## Skills

Adaptability - Apollo - AJAX - Axios - Communication - Creativity - CSS - CSS3 - DevOps - Docker - Express - Figma - Firebase - Frontend - GraphQL - Git - Hooks - HTML5 - JavaScript - jQuery - Leadership - Linux - MongoDB - MVC - Next.js - Node - Node.js - NodeJS - NoSQL - OOP - PostgreSQL - Problem-Solving - Python - Rails - React - React.js - ReactJS - Redux - Ruby - SQL - Teamwork - TDD - TypeScript - UI - UX - WebRTC

## Experience

### Freelance Web Developer

Mar 2021 - Current

- Work with the client to determine the client's wants/needs and subsequently draft a product wireframe w/Figma
- Develop a full-stack web application to the client's specifications and check-in with accomplishments at the end of each week.

### Software Engineer Assistant - App Academy

Dec 2020 - May 2021

- Leads code reviews and provides technical support for over 100 software developers during their job search process, leading to dozens of successful placements quarter-over-quarter.
- Administers mock technical interviews, including: systems design, data structures and algorithms, whiteboarding, and technical trivia.

## Work Projects

**MadCutsMobile** (TypeScript, React, Firebase, NoSQL, HTML5, CSS3, Stripe, Google Maps, Node.js) [Live Site](#) | [Github](#)

Freelance project for a mobile haircutting business.

- Integrated Google Maps API to take in users' home address and calculate the distance between appointments resulting in a mileage fee.
- Utilized Stripe to handle online payments and cancellation fees.
- Incorporated serverless functions in Node.js for an additional layer of security when processing payments and appointments.

## Technical Projects

**pairboard.dev** (TypeScript, React, Firebase, Algolia, NoSQL, HTML5, CSS3, WebRTC, Node.js)

[Live Site](#) | [Github](#)

A pairboard matchmaking web application.

- Integrated multi-peer WebRTC, allowing up to a max of ~1,000 users in a single call, to provide P2P video calling.
- Utilized Firebase's Realtime Database specifically for WebRTC signaling, minimizing potential costs, and eliminating the need for additional servers or websockets.
- Synergized database with serverless functions and Algolia ( similar to ElasticSearch ) to develop a broad search mechanism over posts, users, and other public pertinent information.
- Incorporated React lazy and suspense to lazily load components resulting in a ~27% faster initial load time.

**Petsagram** (JavaScript, React, Firebase, NoSQL, HTML5, CSS3)

[Live Site](#) | [Github](#)

A social networking web application inspired by Instagram and built for pets.

- Developed an infinite scrolling feed through an initial fetch and a database listener that paginates posts and provides real-time updates to reduce cloud reads and writes.
- Employed css media queries to dynamically size elements creating a responsive design that is easy to use across all screen sizes from mobile to desktop.
- Integrated styled components (CSS-in-JS) to couple presentation with functionality to promote reusability and scalability as well as making the code base easier to navigate.
- Enhanced the custom-made user authentication with OAUTH for additional more convenient login options.

## Education

### App Academy

Aug 2019 - Mar 2020

Immersive 24 week, 1,000 hour software development course with focus on full stack web development.

### Washington State University

Aug 2015 - May 2019

Pursued a degree in and certified for Computer Science B.S

Completed relevant coursework in:

Program Design and Development C/C++, Data Structures C/C++, Advanced Data Structures C/C++, Introduction to Computer Architecture, Automata and Formal Languages, Object-Oriented Software Principles, Software Engineering Principles I, Design and Analysis of Algorithms.