Alexander George

(775) 301-8981   alexander97.george@gmail.com   Portfolio   LinkedIn   Github

Skills

CSS | Firebase | Git | HTML | JavaScript | Node | NoSQL | React | TypeScript | UI | UX | WebRTC
Apollo - AJAX - Axios - C - C++ - CSS - CSS3 - DevOps - Docker - Express - Firebase - Frontend - GraphQL - Git - Hooks - HTML5 JavaScript - jQuery - MongoDB - MVC - Node - Node.js - NodeJS - NoSQL - OOP - PostgreSQL - Python - Rails - React - React.js ReactJS - Redux - Ruby - SQL - TDD - TypeScript - UI - UX - WebRTC

Experience

Software Engineering Assistant   Dec 2020 - Current
Part-time role at App Academy assisting students with mock interviews, code reviews, hosting office hours, pairboarding, and other technical development sessions.

Projects

pairboard.dev (TypeScript, React, Firebase, Algolia, NoSQL, HTML5, CSS3, WebRTC)   **Live Site | Github**
A pairboard matchmaking web application.
- Constructed with TypeScript to enable static typing functions and variables to reduce bugs and promote reusability and scaling.
- Took advantage of both Firebase's noSQL databases (Cloud Firestore and Realtime Database) to maximize the strengths of each and minimize potential costs.
- Created and employed custom hooks to DRY code, as well as decouple logic and presentation.
- Integrated multi-peer WebRTC, allowing up to a theoretical max of ~1,000 users in a single call, to provide peer-to-peer video calling, reducing the strain on the server and databases.
- Utilized Firebase's Realtime Database for WebRTC signaling, eliminating the need for additional servers or websockets.
- Synergized database with serverless functions and Algolia 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 decrease of 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.
- Heavily incorporated React hooks (especially useContext) to simplify code and eliminate the need for a third party state management system such as Redux.
- 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.

Spotlofi (JavaScript, React, Redux, Ruby, Rails, PostgresQL, HTML5, CSS3)   **Live Site | Github**
A web-based music streaming application inspired by Spotify and dedicated to solely lofi music
- Incorporated the React Player npm package to easily construct an audio web player providing an easy to use UI.
- Implemented Rails Active Storage with AWS S3 to host music and image files to ensure scalability, and reduce server load.
- Constructed functional components over classes to ensure standardization, increase readability across application, and allow the implementation of hooks where necessary.

Education

App Academy   Aug 2019 - Mar 2020
Immersive 24 week software development course with focus on full stack web development.