Alexander George

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Skills

CSS | Firebase | Git | HTML | JavaScript | Node | NoSQL | React | TypeScript | UI | UX | WebRTC

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

Experience

Software Engineer Assistant - App Academy Dec 2020 - Current

- Lead code review and provided technical support for over 100 software developers during their job search process, leading to dozens of successful placements quarter over quarter.
- Administer mock technical interviews including systems design, data structures and algorithms, whiteboarding, and technical trivia.

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 (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 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.

Education

App Academy Aug 2019 - Mar 2020

Immersive 24 week 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.