

ALAN XIE

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SKILLS

Languages: JavaScript, Typescript, Python, HTML/CSS,
Frameworks and Libraries: Node.js (Express & Passport), React/React Native, Angular, Ionic, d3.js, jQuery
Cloud and Tools Git, MongoDB (Mongoose), JIRA, Postman, Heroku, Figma, Firebase
General: RESTful, Testing, Object-Oriented Design, Data Visualization, Databases

EXPERIENCE

Junior Software Developer | HelloGbye January 2019 – April 2019

- Developed and deployed a full-stack service using Node.js (Express), MongoDB, Angular 7, and Heroku to store, query, and display data; reduced length of QA process by 50%
- Designed data models and wrote algorithms in Node.js to parse through 1000+ lines of JSON to display data in multiple graph visualizations rendered using d3.js
- Upgraded, migrated, and optimized 2000+ lines of Typescript code within hybrid Ionic application to be used in future enterprise projects
- Wrote Angular components (directives, services) using best practices within high-profile client dashboard to be used by company stakeholders such as American Express
- Participated in Sprint meetings with senior engineers to develop proper code practices related to sustainability, reusability, and scalability

PROJECTS

Huddle | React Native, Java (Spring), MySQL January 2019 - April 2019

- A mobile social media service that connects sports fans while supporting local venues
- Implemented MVC design patterns to establish smooth application flow between REST API endpoints, database entities, and user interface
- Utilized Google Maps and React Native API to track and record user location and preferences

SubTracker | Angular, Node.js (Express & Passport), Ionic, MongoDB March 2019 - May 2019

- A finance-based application to keep track of a user's daily, monthly, or annual subscriptions
- Utilized Passport and Ionic local storage to implement OAuth 2.0 and JWT-based authentication for cross-app security
- Wrote a REST API using Node.js, Express, and Mongoose to handle authentication and CRUD operations within application endpoints

Personal Website | Angular, Firebase April 2019 – May 2019

- Built and deployed a responsive single-page application (SPA) using Angular 7 and Firebase showcasing past work experiences and projects
- Utilized Angular components and directives, lifecycle hooks, and routing to optimize UI/UX

EDUCATION

University of Waterloo | Health Studies (B.S.) September 2017 - April 2022 (expected)

- Specialization in Health Informatics with a minor in computing
- Relevant Courses: Introduction to Computer Science II, Introduction to Health Informatics, Biostatistics