

THOMAS QI

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Technical Skills

Languages: C/C++, Python, Java, HTML/CSS, JavaScript/TypeScript, Swift, SQL, Bash, R, Scheme
Technologies: Node.js, AWS, Linux, Git, Docker, PostgreSQL, Firebase, Selenium, Unity
Frameworks/Libraries: React.js, Express.js, scikit-learn, NumPy, Pandas, Matplotlib

Education

University of Waterloo

Bachelor of Computer Science, Co-op

Waterloo, ON | Sep 2023 – Aug 2028

Cumulative Average: 94%

Experience

Fullstack Developer

Apr 2024 – Present

Atomic

Los Angeles, CA

- Developed and maintained web-app using **JavaScript** with **React-Redux**, creating multiple components using **React.js** with high regard for scalability and abstraction
- Configured **ESLint** on the main branch, maintaining optimal code style and avoiding deprecated package use
- Refactored and optimized legacy code, reducing website loading time by over **1.5s**
- Implemented continuous integration (CI) using Git and GitHub, facilitating seamless collaboration among 65 developers

Programming Instructor

June 2022 – Dec 2022

Coding Pals

Vancouver, BC

- Designed and delivered a **6-month** long intermediate Java course covering topics such as **OOP**, **algorithms**, and **data structures** to over **80** students through weekly lectures
- Answered student questions regarding Java syntax, errors, and algorithm optimization
- Organized and hosted weekly programming contests using HackerRank

Projects

Price Alert Web Scraper 🌐 | *Selenium, React.js, Express.js, AWS EC2, AWS Amplify*

- Created a full-stack web application using **React.js** and **Express.js** that allows users to effortlessly track and web-scrape item prices from an online marketplace with **151,500+** listings
- Implemented web-scraping technology using **Python** and **Selenium**, automatically alerting users using **SMTPlib**
- Deployed back-end using an **AWS EC2** instance, enabling smooth front-end and back-end integration with REST APIs
- Automatically bypassed two-factor authentication of the online marketplace by reusing cookies to redirect sessions

FitMetric 🌐 | *Swift, Firebase, XCode*

- Developed an **iOS application** that records and stores daily body weight of users, allowing for easy access to statistics such as BMI and predicted weight from an **OLS regression** model
- Designed and created a robust authentication system using **Firebase** to streamline the registration process
- Implemented automatically scheduled notifications to notify users

Craigslist Clone 🌐 | *TypeScript, React.js, Firebase, AWS Amplify, TailwindCSS*

- Created a full-stack web application for users to create custom listings on a Craigslist-like marketplace
- Utilized **Firebase** to store and fetch user-uploaded images, reducing image-rendering time by **90%**
- Leveraged **React Router** to construct multiple pages, enabling users to effortlessly create, edit, and delete listings

Bluetooth Light Switch 🌐 | *C++, Arduino, Android Studio*

- Engineered an **Arduino-based** embedded system that allows for users to remotely toggle a light switch via Bluetooth
- Developed an accompanying Android app using Android Studio for users to control the light switch

Personal Website 🌐 | *Typescript, React.js, AWS Amplify, AWS Route53, Bootstrap*

- Designed, created, and deployed a **fully-responsive** website using **React.js**, **Bootstrap**, and **AWS Amplify**
- Created multiple pages using **React Router** and set up non-www to www redirect using **AWS Route53**