

# THOMAS QI

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## Technical Skills

**Languages:** C/C++, Java, Python, HTML/CSS, JavaScript/TypeScript, Swift, SQL, Bash, R, Scheme  
**Technologies:** Selenium, AWS, Unix/Linux, Git/GitHub, Docker, PostgreSQL, Firebase, Node.js, Unity, L<sup>A</sup>T<sub>E</sub>X  
**Frameworks/Libraries:** React.js, Express.js, Bootstrap, TailwindCSS

## Education

### University of Waterloo

Waterloo, ON | Sep 2023 – Aug 2028

*Honours Bachelor of Computer Science, Co-op*

*Cumulative Average: 94%*

- **Relevant Coursework:** Designing Functional Programs (Scheme), Algorithm Design and Data Abstraction (C)

## Projects

### Price Alert Web Scraper 🕸 | *Selenium, React.js, Express.js, SMTPlib, AWS EC2, AWS Amplify*

Dec 2023

- Created a **full-stack** web application using **React.js** and **Express.js** where users can check prices of CS2 skins
- Used **Python** and **Selenium** to web scrape item prices, automatically alerting users via email through **SMTPlib**
- Hosted **Express.js** backend on an **AWS EC2** instance
- Automatically **bypassed 2FA** authentication of the online marketplace by **reusing cookies**

### FitMetric 🕸 | *Swift, Firebase*

Jan 2024

- Created an iOS application where users can record weight and get predictions from an **OLS regression** model
- Utilized **Firebase** to create a robust user registration and authentication system
- Scheduled automatic notifications to notify users to record weight

### Craigslist Clone 🕸 | *React.js, Firebase, AWS Amplify, TailwindCSS*

Feb 2024

- Created a **full-stack** web application using **React.js** and deployed the front-end using **AWS Amplify**
- Created interface for users to create, edit, and delete listings; stored and fetched user-uploaded images from **Firebase**

### Bluetooth Light Switch 🕸 | *C++, Arduino*

May 2023

- Created bluetooth-controlled light switch using an **Arduino** alongside an **HC-05** module
- Developed accompanying Android app used to control the light switch

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

Nov 2023

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

## Experience

### Coding Pals

June 2022 – Dec 2022

*Programming Instructor*

*Vancouver, BC*

- Taught an **intermediate Java** course covering topics such as **OOP** and **algorithms and data structures** to over **80** students through weekly lectures
- Hosted workshops and guest lectures on topics such as artificial intelligence and machine learning
- Answered student questions regarding **Java syntax, errors, and optimization**

### Point Grey Secondary

Jan 2023 - July 2023

*Teaching Assistant*

*Vancouver, BC*

- Answered student questions on Python and HTML
- Gave lectures on Arduino projects to over **30** students

## Awards / Other

- Bilingual proficiency in **English** and **Mandarin**
- Scored 41/60 (Top 2.5%) on the Canadian Senior Mathematics Contest
- Scored 120/150 (Top 5%) on the Fermat Contest