

THOMAS QI

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Technical Skills

Languages: Java, C, C++, Python, HTML/CSS, JavaScript/Typescript, Racket(Scheme)

Technologies/Frameworks: Selenium, ReactJS, AWS, Bootstrap, Bash, Git, GitHub, L^AT_EX

Skills/OS: Linux, OOP, Functional Programming, Version Control

Projects

Price Alert Web Scraper  | *Python, Selenium, SMTPlib, AWS EC2*

December 2023

- Programmed script that automatically **web-scrapes** an in-game item marketplace and alerts users of price drops
- Automatically **bypassed 2FA** authentication by **reusing cookies**
- Automated email sending using Python's **SMTPlib**
- Created an **AWS EC2** instance that runs the script on the cloud

Personal Website  | *Typescript, ReactJS, Bootstrap*

November 2023

- Created a fully-responsive website using **React** and **Bootstrap**
- Created multiple pages using **React Router**
- **Hosted** the website using GitHub Pages

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

Experience

Coding Pals

June 2022 – December 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

January 2023 - July 2023

Teaching Assistant

Vancouver, BC

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

Leadership / Extracurricular

STEM Club

September 2022 - July 2023

Co-founder

Point Grey Secondary

- Recruited over **40** active members through information sessions
- Hosted **weekly lectures** on subjects such as calculus, chemistry, and computer science
- Provided help to students on subjects such as computer science and calculus

Education

University of Waterloo

Waterloo, ON | Sep. 2023 – Aug. 2028

Honours Bachelor of Computer Science, Co-op

Cumulative Average: 94/100

Other

- Bilingual proficiency in **English** and **Mandarin**