

Quinn Ha

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EDUCATION

McMaster University

Hamilton, ON

B.Eng in Software Engineering with Co-op ☞

Jul. 2019 - May 2024

- GPA: 4.0
- Relevant Coursework: Software Security, Data Structures and Algorithms, Databases, Software Testing

SOFTWARE DEVELOPMENT EXPERIENCE

Teaching Assistant

Jan 2021 - Present

McMaster University ☞

Hamilton, ON

- Performed as a teaching assistant for the course 1CP3: C++ Programming, 1PR3: **Object-Oriented Programming in C++** and 1P13: **Integrated Cornerstone Design Projects in Engineering**.
- Delivered lectures and lab content for over 100 students on programming in **Python** and C++, including concepts such as **data structures**, control structures, and **algorithm design**.

Software Developer Intern

May 2021 - Aug 2021

Canadian Space Agency ☞

Montreal, QC

- Engineered a FreeRTOS port in **C** for NASA's Core Flight System (cFS), unblocking development for over 10 models of micro-controllers for the Lunar Gateway and Canadarm3 missions.
- Developed an Operating System Abstraction Layer (OSAL) for a 32-bit system architecture, enabling core systems to interface OS applications such as **semaphores**, **queues**, and **tasks**.

Data Scientist

Nov 2020 - Mar 2021

Magarvey Labs under McMaster University ☞

Remote

- Generated 4 genome datasets from 5 **RESTful APIs** using **Python**, utilizing data to train Hugging Face **NLP** models.
- Cleaned data using **Numpy** and **Pandas**, and developed machine learning models with **scikit-learn** to discover matching pairs of genomes to natural products, to develop antibodies against modulate drug-resistant pathogens.

Automated QA Engineer Intern

May 2020 - Aug 2020

Equitable Bank ☞

Toronto, ON

- Engineered over 200 automated testing scripts for **Spring Boot** applications with **JMeter** and **SoapUI**.
- Built an automated daily testing framework using **ProtractorJS**, decreasing average time of test by 60% and increasing testing efficiency by 3%.

OTHER PROFESSIONAL EXPERIENCE

Product Management Intern

May 2022 - Aug 2022

Purolator Inc. ☞

Toronto, ON

- Championed various product features for Purolator's **B2B**, **B2C**, and internal tools, resulting in an 4% increase in adoption rate, and a \$60,000 reduction in monthly operations costs.
- Managed cross-functional team and stakeholder communication, and oversaw over 3 features from inception to implementation, leading to a 5% increase in KPIs.

PROJECTS

Ride The Subway

ridehome.netlify.app ☞

- Developed a web application in **React**, **Node**, **HTML**, and **SASS** to incite nostalgia from the sounds of commuting in Toronto during the COVID-19 Pandemic.
- Hosted application on Netlify, storing audio files in **Amazon S3 Datastores**.
- Created wireframes and mockups for website using **Figma**, iterating based off user feedback.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, MySQL, MATLAB

Web Development: Javascript, React, HTML5, CSS, Node

Other Tools: MySQL, Git, Linux, Docker, Spring, Spring Boot, Figma