



Maggie Guo

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EDUCATION

University of Waterloo

September 2022 – April 2027

Bachelor of Computer Science

Waterloo, ON

- **Awards:** GHC Anita B. Scholarship 2023, Datadog Summer Program, Euclid Honor Roll, President's Scholarship of Distinction, Society of United Professionals Scholarship
- **Relevant Courses:** Algorithms and Data Structures, Operating Systems, Object-Oriented Software Development

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, Java, JavaScript, TypeScript, HTML/CSS, C#

Frameworks/Tools: AWS, Spring Boot, React, Git, .NET, Jenkins, GitLab, Linux, Cypress, Azure

EXPERIENCE

Microsoft

May 2025 – August 2025

Software Engineering Intern

Redmond, WA

Miovision

September 2024 – December 2024

Software Developer Intern

Kitchener, ON

- Designed and implemented the architecture for an **XML data exporter** using **C# .NET** and **Dapper**, facilitating data transfer between traffic equipment and Miovision's system for **7000+** customers
- Optimized report generation speed via **data caching** to reduce database calls, decreasing response times by **30%**
- Improved annotation tools in **Angular** to manage the state of spatial bounding boxes for computer vision processing
- Updated a monitoring dashboard with Looker and OpenAPI to map custom street names in the metadata to directional entries. This feature was deployed to the Region of Waterloo

PointClickCare

January 2024 – April 2024

Software Engineering Intern

Toronto, ON

- Implemented **custom mappers** and schema modifications to sync core and web app data, impacting **32k** NA facilities
- Designed **REST APIs** in **Spring** for filtering and updating assignees, allowing users to reassign practitioners to notes
- Automated voice transcription for **Cypress** tests by virtualizing audio sources in Docker containers, increasing test coverage by over **30%**

Augmented Intelligence Lab

September 2023 – Present

Undergraduate Research Assistant

Waterloo, ON

- Designed user workflows for a content-generation builder, allowing clients to translate the produced data into functional apps
- Developed a settlement app using React and **Figma**, in collaboration with Meta and the University of Waterloo for newcomers to the Kitchener-Waterloo region. Presented the app at the **World Summit AI 2024**

BlackBerry

May 2023 – August 2023

Software Development Student

Mississauga, ON

- Built 2 APIs with **Python** for verifying IVY setups, improving access to vehicle sensor insights for **235m** developers
- Updated **port forwarding patterns** for emulators and refactored circular imports blocking SSH identity transfer
- Prototyped the **versioning** of plugin installations to separate **SSH keys** and **JSON** files, allowing for multiple major versions to work independently and in parallel. Proof of concept contributed to major version migration guides and supported feature delivery

PROJECTS

Trav.L | [Bootstrap](#), [Firebase](#), [HTML/CSS](#), [Javascript](#)

- Built a campus safety service with Firebase and Bootstrap that, using **base62-encoded counters** to uniquely generate travel room codes, matches university students commuting across campus. Awarded the Radia Perlman Award for best female-empowering hack out of 500 teams

Cryptocurrency Predictor | [Keras](#), [Tensorboard](#), [Pandas](#), [Scikit-learn](#), [Collections](#)

- Built a binary classification RNN with **LSTM** to predict whether to buy or sell cryptocurrencies by modelling the cleaned time series data of 4 conversion rates
- Implemented **SMOTE** to balance buy and sell samples, resulting in **55%** model accuracy