

# Amy Li

✉ amy.li2@uwaterloo.ca

📄 aamyli.github.io

🐙 @aamyli   🌐 in/aamyli

## Skills

Languages | Java, Ruby, C, SQL, JavaScript, Golang, Python, Bash, HTML/CSS

Technologies | Ruby on Rails, React, Flask, MongoDB, Node.js, Express.js, Git, Terraform

## Education

**University of Waterloo & Wilfrid Laurier University** | CAV: 94.1%, GPA: 3.98/4.00

09/2020 – present

BCS & BBA Candidate – Computer Science & Business Administration Double Degree

## Experience

**Project Developer** | UW Blueprint, Social Diversity for Children Team 🐙

09/2021 – present

Waterloo, ON (Remote)

- Building a program registration and management platform using **Next.js**, **Railway**, and **AWS** services
- Working with a team of **7** developers to deploy to production and handoff to customer by end of term

**Software Engineer Intern** | KeepTruckin 🐙

05/2021 – 08/2021

San Francisco, CA (Remote)

- Spearheaded the first optimization of a new vehicle pairing algorithm, developing **Ruby** scripts to benchmark performance and identify gaps on historical data, resulting in a **7%** increase in algorithm success rate
- Streamlined data collection for the product team through cross-table **SQL** queries to Snowflake, designing **9** visualizations on Redash to improve accessibility to **600,000+** daily geolocation messages
- Owned backend development of API endpoint with **Ruby on Rails**, **AWS PostgreSQL** database migrations, and new data population to every geolocation message passing the service's **Golang** pipeline

**Web Developer & Operations Director** | Waterloo Business Review 🐙

05/2020 – present

Waterloo, ON (Remote)

- Revamped website with **HTML/CSS** and **JavaScript**, achieving **1000+** monthly views and **46%** click-through rate
- Initiated refactoring of codebase to support and organize the tripling of article numbers within the past year
- Increased online following by **25%** through redevelopment of promotional materials with **Photoshop** and **Figma**

**Autonomous Lead** | Pickering High Robotics Team

09/2018 – 05/2020

- Established and led school's first autonomous robotics team to the Skills Ontario 2019 competition
- Self-taught **Arduino (C/C++)** software & hardware, driving design, construction, and sensor integration
- Co-developed robotics club curriculum to teach fundamentals of robotics to **25+** students in weekly sessions

## Projects

**Valeo** | Top 15/115 Hack Against Covid 🐙

- Online platform supporting small business market reach through an income tracker and a personalized chatbot
- Drove full-stack development with the **MERN stack**, implementing end-to-end CRUD functionalities to **MongoDB**
- Leveraged states and hooks in **React** to process JSON objects, troubleshooting requests with **Insomnia Core**

**FineTuned** 🐙

- Full-stack web app that edits uploaded images based on audio and lyrical analysis of a chosen song
- Established API endpoints in **Flask** and applied **Azure's** sentiment analysis on song lyrics
- Implemented backend logic for audio and lyrical data to manipulate photo properties with **Python's** PIL library

**TechNova Hackathon** 🐙

- Logistics coordinator, founding member of the University of Waterloo's **1<sup>st</sup>** Global Women+ in Tech hackathon
- Organized cross-team projects, amassing **70+** mentors and **500+** hackers from **25+** countries for **6** days of events

## Awards

**Grace Hopper Scholar**, scholarship to the virtual Grace Hopper Conference 2021 | UW Women in Computer Science

**Mathematics National Scholarship (\$25 000)**, 1 of 10 total recipients | University of Waterloo

**Governor General's Academic Medal**, highest cumulative average out of 500+ graduates | Pickering High School