

Emily Qi

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EDUCATION

University of Waterloo

2024 – 2028

Candidate for Bachelor of Computing and Financial Management, Honours

- Double major in Computer Science and Finance
- Accounting Teaching Assistant, Finance Lead at UW/UX, Consultant at NPO Consulting, Equity Research Analyst at UW Finance Association, Program Representative at Math Endowment Fund Funding Council, Autonomy Developer at Waterloo Aerial Robotics Group

TECHNICAL SKILLS

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

Libraries and Frameworks: React, Next.js, Node.js, Express, FastAPI, SQLite, PostgreSQL, MongoDB, Selenium, pandas, NumPy, Matplotlib, yfinance, scikit-learn, TensorFlow

Tools: Git, Docker, VS Code, Jupyter Notebook, Figma, Firebase, Cloudflare, Vercel, Postman, Microsoft Office Suite

EXPERIENCE

Machine Learning Researcher

Sep 2025 – present

University of Waterloo

- Incoming Fall 2025 - developing a simulation environment for autonomous racing and applying reinforcement learning with Stable Baselines3

Software Engineering Intern

May 2025 – Aug 2025

Royal Canadian Mounted Police

- Drove end-to-end development of a full-stack app (React, Next.js, FastAPI, SQLite) using RESTful APIs and CRUD operations for asynchronous execution of key operational workflows, reducing manual overhead by 70%
- Led client conversations to translate business needs into product requirements, accelerating delivery by 2 months
- Engineered robust browser automation using Selenium to navigate a dynamic, bot-resistant web interface

Data Automation Intern

Jul 2023 – Aug 2023

Nokia

- Automated data validation workflows with VBA, reducing team's project workload by 95%
- Streamlined monthly exports of Power BI visualization data using Power Automate, enabling faster data delivery
- Designed interactive dashboards to visualize global real estate data, enhancing insights across 130 countries

Co-Founder

Oct 2020 – present

LunarHacks

- Led teams of 10+ students to host 3 hackathons and 1 children's conference, engaging 900+ participants worldwide
- Orchestrated full event lifecycle, prioritizing budget, outreach, and logistics management for smooth execution
- Facilitated stakeholder engagement with sponsors, speakers, volunteers, and participants, driving a 97% attendee satisfaction rate

PROJECTS

Market-Matching Robo-Advisor | *Python, pandas, Matplotlib, yfinance*

- Devised algorithm to strategically choose 16 stocks from a list of tickers and red herring strings to build a portfolio mirroring returns of TSX 60 AND S&P 500 indices
- Justified stock selection through statistical analysis, visualizations, and financial concepts

'visionPrep | *React, JavaScript, Material UI, Figma, Firebase*

- Automated Vice Principal's supervision schedule generation process and cut required time commitment by 99.3%
- Authored key product deliverables, including Concept Plan, design proofs, Software Design Document, sprint retrospective reports, and sprint plans for enhanced development transparency and project management

AWARDS AND CERTIFICATIONS

Computing and Financial Management Undergraduate Achievement Award, UWaterloo

Jul 2025

Lieutenant Governor's Community Volunteer Award, Merivale High School

Jun 2024

- Recognized as the top graduating student volunteer at Merivale High School for exceeding requirements with 850+ hours of community service