

# Emily Qi

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## EDUCATION

### University of Waterloo

Sep 2024 – expected Apr 2029

*Candidate for Bachelor of Computing and Financial Management, Honours*

- Double major in Computer Science and Finance
- 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, JavaScript, TypeScript, HTML, CSS, VBA, SQL

**Libraries and Frameworks:** React, Next.js, Node.js, Express, FastAPI, SQLite, PostgreSQL, Selenium, pandas, NumPy, Matplotlib, yfinance

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

## EXPERIENCE

### Software Engineering Intern

May 2025 - present

*Royal Canadian Mounted Police*

*Ottawa, ON*

- 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

### Co-Founder

Oct 2020 – present

*LunarHacks*

*Ottawa, ON*

- 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

### Project Manager

Aug 2024 – March 2025

*Linens N Love*

- Forged partnerships with 10+ hotels and shelters to increase donation intake and pilot a sustainable revenue model
- Spearheaded logistics coordination for 2-minute film production in collaboration with the Public Interest Registry

### Data Automation & Analytics Intern

Jul 2023 – Aug 2023

*Nokia*

*Ottawa, ON*

- 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

## 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, 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

### 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