

Ethan Zhao

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EDUCATION

Western University

London, Ontario

Engineering and Ivey Business HBA Candidate

Sept. 2023 – May 2027

- First Term Average: 96.3% (4.0 GPA). Recipient of the Western Scholarship of Distinction (\$2,500).
- Co-founder of Western TECH, team lead at WDS, projects director at WFN, software lead at WQC.
- Elected first year engineering representative by 53% majority vote across 13 candidates.
- Managed a \$150+ budget for university activities as VP Finance of Residence Council.

TECHNICAL EXPERIENCE

Robert's Rules Council Helper ([Link](#))

Nov. 2023 - Present

- Created a council speaking order and voting app now used by over 50 members every meeting, handling over 200 concurrent users, ensuring eventual consistency, and permanently changing UES council procedure.
- Later appointed council IT commissioner to maintain both voting system, public facing website, and file repositories.

Quantum Portfolio Optimization ([Link](#))

Nov. 2023 - Present

- Taught and led a team of 6 developers to use quantum computing and qualitative analysis, creating a low-risk portfolio which yielded twice average market returns.

Automated Cadet Training Management ([Link](#))

Sept. 2022 – June 2023

- Integrated a training app into cadet activities to automate assignment of 30 instructors per regulation by the department of defense which saves over 6 hours a week for a training team of 15 people.
- Proposed further implementation into other squadrons, resulting in partial use within neighboring squadrons.

WORK EXPERIENCE

Foursight Screenings ([Link](#))

Toronto, ON

Software Engineering Team Lead

May 2021 – Sept. 2023

- Developed a 95% accurate machine learning model to detect the probability and location of cancer from Micro-RNA sequences, earning \$10,000+ in funding and forming a comprehensive network of researchers and investors.
- Engineered the back- and front-end of the AI interface, allowing secure public access to the AI model for widespread impact and recognition, winning the Remarkable Students Yearly Grand Prize Award 2022 (\$15,000).

aPrepTutors ([Link](#))

Toronto, ON

Lead Software Developer

May 2023 – Sept. 2023

- Established a tutoring company which paired International Baccalaureate candidates to graduates, growing to host 14 students and 8 tutors, becoming profitable in one month.
- Designed a custom full stack website which autonomously matched possible clients with tutors based on availability.
- Organized a team of 3 developers and 2 directors using a CI/CD workflow, initiating company operations in 2 weeks.

Snow Hawks Ski School

Toronto, ON

Intermediate Ski Instructor

December 2021 – March 2023

- Taught and supervised a class of 8 Intermediate skiers for 9 hours a day resulting in their promotion to advanced.
- Collaborated with 50+ instructors to form group events and manage student success resulting in >80% return student rate

LEADERSHIP

Western TECH – Director and Co-Founder

Oct. 2023 – Present

- Founded a project-based engineering education school club which aims to create a pipeline for beginning software developers, garnering over 30 members within the first month.
- Hosted workshops and oversaw advertisement while vetting future workshop hosts, resulting in 4 more workshop hosts and 4 new workshops within 6 months of formation.

Western Developer Society – Team Lead

Sept. 2023 – Present

- Managed a team of 8 developers through the complete project life cycle to create a website for Western Green Tech Society using a CI/CD workflow and ensuring strong communication with client regarding their needs.
- Taught necessary skills of web development to less experienced developers to complete project in a timely manner.

SKILLS AND INTERESTS

Languages: Java, Python, SQL (Postgres), Javascript + Typescript, HTML/CSS

Frameworks: Node.js, Flask, Django, WordPress, FastAPI, Tailwind, Nextjs, Sveltekit, React

Developer Tools: Git, Docker, AWS, Google Cloud, VS Code, PyCharm, IntelliJ, Eclipse, Web Sockets, OnShape

Libraries: Pandas, NumPy, Matplotlib, MongoDB, TensorFlow, pyTorch

Interests: Music, Cooking, Fashion, Entrepreneurship, Tech Research