

Ethan Zhao

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EDUCATION

Western University

London, Ontario

Engineering and Ivey Business HBA Candidate

Sept. 2023 – May 2027

- 4.0 GPA (96.3%). Recipient of the Western Scholarship of Distinction (\$2,500).
- Elected first year engineering representative by 53% majority; Managed a \$150k+ as VP Finance of Residence Council.
- Co-founder of Western TECH, projects director at WFN, software lead at WQC.

WORK EXPERIENCE

Foursight Screenings ([Link](#))

Toronto, ON

Co-founder, Software Engineering 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

Co-founder, 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.

TECHNICAL EXPERIENCE

Robert's Rules Council Automation ([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.

Investment Portfolio Optimization w/ Quantum Computing ([Link](#))

Nov. 2023 - Present

- Taught and led a team of 6 developers to combine quantum computing and qualitative stock analysis, creating a low-risk portfolio optimization algorithm which yielded 0.5% monthly growth.
- Hosted the first quantum-based hackathon in Canada, teaching quantum algorithms and business strategies to developers.

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.

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 web development skills to less experienced developers to complete project in a timely manner.

Western Founders Network – Projects Director

Sept. 2023 – Present

- Assisted in directing the projects portfolio of the largest entrepreneurship club on campus in developing multiple applications including facial recognition and voice command APIs.
- Outlined project timeline and deliverables to sub-divide large applications and ensure project completion.

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, Tech Research, Dance, Skiing, Entrepreneurship