

Ethan Zhao

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EDUCATION

Western University

London, Ontario

Mechatronics Engineering and Ivey Business HBA Candidate

Sept. 2023 – May 2027

- 3.98/4.0 GPA (96.3%). Recipient of the Western Scholarship of Distinction (\$2,500).
- IT Commissioner for the Engineering Council; Managed \$150k+ as VP Finance of Residence Council.
- 2nd of ~90 teams at Western Engineering Competition, Project lead at Western Quantum Club, Flutist in Chamber Music.

WORK EXPERIENCE

Goodkind Software Corporation ([Link](#))

Toronto, ON

Software Engineering Intern

May 2024 – Aug 2024

- Headed and released first major feature after 1.5 months, acquiring 3 new clients in under 3 months.
- Took on 3 major features, handling crisis situations related to infrastructure and service outages outside office hours.
- Participated in product design discussions and collaborated with partner success team to develop 8+ new features.
- Assisted sales team by preparing projected benefit estimates for clients and fulfilling short-term client requests.

Foursight Screenings ([Link](#))

Toronto, ON

Co-founder, Software Engineering Lead

May 2021 – Sept. 2023

- Trained 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

- Personally tutored International Baccalaureate (IB) students through higher level physics, math, and chemistry courses.
- Established a tutoring firm that pairs IB candidates with graduate tutors, growing to host 14 tutors and 8 students.

TECHNICAL EXPERIENCE

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

Nov. 2023 - Present

- Created an automated council speaking order and voting app now used by over 50 members every meeting, handling over 200 concurrent users and ensuring eventual consistency, 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 that 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 as per regulation by the department of defense that saves over 6 hours a week for a training team of 15 people.
- Migrated information for 225 cadets to a new government platform within 2 months, ensuring data consistency and security.

LEADERSHIP

Western Developer Society – VP Development

Sept. 2023 – Present

- Managed 8 teams to develop applications and algorithms for 6 clients, including professors, city councilors, and startups.
- Maintained strict DevOps practices to uphold quality and efficiency using CI/CD pipelines and organized sprints.

Western Founders Network – VP Projects

Sept. 2023 – Present

- Mentored a team of 4 in growing the largest entrepreneurship club on campus through developing and learning technologies including facial recognition models and voice command APIs.

Engineering First Year Representative

Oct. 2023 – Sept. 2023

- Elected first year representative by 53% majority across 16 candidates to communicate student needs to faculty.
- Personally held academic and professional workshops to prepare students for exams and assist in career development.

SKILLS AND INTERESTS

Languages: Java, C, C++, Python, SQL, Javascript + Typescript, HTML/CSS

Frameworks: React, Express, Node.js, Django, Tailwind, Nextjs, Sveltekit, Deno.js

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

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

Interests: Music, Cooking, Quantum Computing, Astronomy, Ballroom Dancing, Skiing, Entrepreneurship