Ethan Zhao

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EDUCATION

University of Western Ontario   **London, Ontario**
Engineering and Ivey Business HBA Candidate   Sept. 2023 – May 2028
- First Term Average: 96.3% (4.0 GPA). Recipient of the Western Scholarship of Distinction ($2,500).
- Elected first year Engineering Representative. Appointed VP Finance of Residence Council with a $110k budget.
- 2nd place of 62 teams in Western Engineering Competition.
- Co-founder and Director of Operations for Western Tech. Software lead of Western Quantum Club.
- Project Manager at Western Developer Society, Projects Director for Western Founders Network.

LEADERSHIP EXPERIENCE

aPrepTutors   **Toronto, ON**
Co-founder, Lead Developer   June 2023 – Present
- Established a tutoring company which paired International Baccalaureate candidates to graduates which grew to host 14 students, 8 tutors, and became profitable within one month.
- Designed a custom full stack website which autonomously matched possible clients with tutors based on availability, reducing acquisition time from 2 days to a few minutes.
- Organized a team of 3 developers and 2 directors to establish the company, allowing for sales to begin in less than a month.

Undergraduate Engineering Society   **London, ON**
First Year Representative   Sept. 2023 – Present
- Hosted study sessions before exams for first year engineering students to prepare for midterms averaging 30 members each and creating an easy QnA environment for students still transitioning to a self-guided university life.
- Accelerated information transfer from faculty and organizations to the general engineering population resulting in a 53% majority vote during elections and increasing attendance in referendums and school events.
- Conducted conflict resolution between faculty and students which resolved examination overlaps, unreasonable assessment times, and brought light to the reasons behind faculty's decisions.

Royal Canadian Air Cadets   **Richmond Hill, ON**
Operations Warrant, Band Commander, UPAR Commander   Sept. 2017 – June 2023
- Enhanced major events, such as overnight training activities at military bases, for a squadron of 225 cadets by implementing creative hands-on experiences, resulting in record cadet engagement and information retention.
- Spearheaded porting all cadet accounts, records, and systems to a military version of Office 365 from Google which allowed for the digitization of announcements and resources, reducing the time for critical messages to be sent by days.
- Optimized the training program to take into account instructor qualifications and interests to improve training quality for cadets and expand the creative capacity of lessons.

PROJECTS

Foursight – Gene Based Cancer Detection   **Thornhill, ON**
Tensorflow, Python, Javascript, SQL, Data Analytics   www.ethanzhao.me/projects/foursight/
- Developed a 95% accurate AI to detect the probability and location of cancer from Micro-RNA sequences which received over $10,000 in funding from separate organizations and began a comprehensive network of researchers and investors.
- Engineered the back- and front-end of the AI interface which allowed for secure and reliable public access to the AI model for widespread impact and recognition from various science fairs, companies, and contests.

Automated Cadet Training Management   **Richmond Hill, ON**
Python, SQL, REST API, Web Security   www.ethanzhao.me/projects/banshee-training/
- Integrated a training app into cadet activities to automate assignment of instructors and training requirements as per the department of defense which saves over 6 hours a week for the training team of 15 people.
- Proposed further implementation of this system into other squadrons to the commanding office which resulted in partial use within neighboring squadrons and possible expansion into other areas.

Robert's Rules Council Helper   **London, ON**
Sveltekit, Typescript, Web Sockets, REST API, SQL   www.ethanzhao.me/projects/roberts-rules-helper/
- Initiated the development of a council speaking order and voting app which improved member consistency, fairness, and efficiency during meetings.
- Collaborated with the president and speaker to develop a simplistic and reliable interface which can handle over 200 concurrent users and accurately handle race conditions and poor internet connection.

SKILLS AND AWARDS

Technical: Javascript, Typescript, CSS, Tailwind, React/Nextjs, Svelte/Sveltekit, Docker, Networking, Web Sockets, Django/Fastapi/Python, MySQL, MongoDB, Java, AI/TensorFlow, Pandas, OnShape, Excel