

# Ethan Rong

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## Education

Western University

Bachelor of Science | Honors Spec. in Computer Science

September 2022 - May 2026

GPA: 3.9

## Technical Skills

**Languages** – Python, Javascript, Typescript, Java, SQL, HTML/CSS, C, Bash

**Libraries/Frameworks** – Pandas, Tensorflow, React-JS, Next-JS, Tailwind-CSS, Flask, Django, MongoDB, MySQL

**Dev. Tools** – Git/GitHub, Unix, Node.js, Google Cloud Platform (GCP), Amazon Web Services (AWS), Google Collab

## Work Experience

Ontario Ministry of Transportation

IT Project Assistant (Software Dev.)

Toronto, ON, Canada

May 2023 - August 2023

- Collaborated with fellow interns to create a streamlined incident management system for MTO's Integrated Application Support Team (IAST) with PowerBI and **Microsoft DevOps**; enhanced IAST's operational efficiency by 48%.
- Led a team of 9 developers to create a resume ranking AI model to assist hiring decisions; built a natural language AI model using **TensorFlow** with an accuracy of 88.7% and later fine tuned to a 97.8% accuracy score.
- Developed a file-based search system using **SQL**, **Java Swing**, and **RESTful APIs** to hash blob data searches, reducing search latency by 30% and improving data handling by 20%.

LinkedKey Education Centre

Model UN Instructor

Oakville, ON, Canada

December 2020 - May 2023

- Lectured on subjects like international diplomacy and relations in weekly classes; met with fellow coaches bi-weekly to provide a consistent classroom experience and developed a universal curriculum which **increased signups by 35%**.
- Coached 30+ junior competitors for international level competitions, leading in six competitors receiving awards.

## Extracurriculars

Western Artificial Intelligence (WAI)

Senior Director of Development

London, ON, Canada

May 2023 - Present

- Oversaw over 20+ corporate partners and **increased sponsorship rates by +65%** with firms like RBC and OpenAI.
- Engaged in comprehensive research to identify and foster partnerships for WAI's podcast with cold emailing.
- Managed the portfolio's backend development on WAI's WQuest platform using Django; architected backend features with Amazon Web Services (AWS), which reduced estimated hosting cost by +80%.
- Conducted 100+ user interviews, with **30% of beta-users validating** that WQuest had significantly aided their job search.

Western Founders' Network (WFN)

Vice President of Projects

London, ON, Canada

May 2023 - Present

- Spearheaded strategic planning for the Projects Portfolio, achieving a **100% project completion rate**; coordinated with 2 fellow VPs, culminating in 3 successful demo days and 5 project deliverables throughout the 2023-24 academic year.
- Directed a team of 4 directors in the development of **Harbour-Link**, a mobile app focussed on networking and contact management; constructed the frontend implementation and backend architecture using React-Native and Django.

## Projects

Nourish-Now | Tensorflow/Keras, Pandas, Flask

<https://devpost.com/software/norishnow>

- Developed a web-app using React-JS, integrating a Long-Short-Term-Memory (LSTM) neural network to forecast a 30-day projection for future demand and costs for various social programs, leading to **2nd place at Maple Hacks 2023**

Hover-Touch | Python, OpenCV, Google Cloud Platform (GCP), Git

<https://devpost.com/software/hovertouch>

- Exhibited a video-to-text/speech technology made with Python and OpenCV, which enables non-verbal individuals to communicate through air-written messages on video technology at Hack Western 9, **resulting in 4th out of 80 teams**

Spotify Bot | Flask, React-JS, Tailwind CSS, MySQL

<https://github.com/ethan-rng/spotifyBot>

- Coded a solo full-stack web-app which downloads songs in a Spotify playlist as a local .mp3 files using Spotify SDK and YouTube API; deployed front-end with React-JS and built using tools such as Tailwinds CSS and Vite

## Awards

Hackathons – 3rd at Dataquest 2024 | 4th at Hack Western 9 | 2nd at MapleHacks 2023

Case Competition – 2nd at Technology Consulting Comp. 2023 | Semi-Finalist at Ivey 1220E Business Case Comp. 2023

Product Design – 2nd at Product Design Sprint Competition 2023