

Tyler Steptoe

University of Toronto student experienced in software development and design.

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EDUCATION

University of Toronto

2026, In Progress

Pursuing Cognitive Science and Computer Science

Toronto, ON

- Completed several courses in the computer science curriculum including Java, C, Python, Assembly, clean architecture, and hardware. Developed successful full-stack social media applications in a group setting. Minor in cinema studies.
- In addition, I am enrolled in the computational stream Cognitive Science, involving humanity's relationship with artificial intelligence. Courses in this program include proofs, symbolic logic, neuroscience, cognitive philosophy and more.

EXPERIENCE

Parlay Games Inc.

May - Aug. 2023 + 2024 (Seasonal)

AI Research Scientist Intern

Remote

- Researched and implemented applications of several **Large Language Models** to moderate and assist in iGaming chat rooms. This involved use of **LangChain** as well as **OpenAI's** integrated function calls which were new at the time.
- Assisted in researching solutions for a back end **AI copilot** for Parlay admins. The AI copilot would allow admins to use natural language to moderate games, view analytics, settle help desk tickets, analyze user data and more.

Caffiends (UofT social justice-oriented student-run cafe)

Jan. 2024 – Present

Co-manager

Toronto, ON

- Responsible for managing 12 executives and **100+** volunteers at a specialty cafe. Elected in 3rd year, I track finances, order weekly pastries, attend student government meetings, organize fundraisers, and perform general business operations.

PROJECTS

INKSIGHT [\[Link\]](#) - Robotics meets RAG to allow you to chat with your notebook.

Mar. 2025

Best Hardware Hack Award Winner @ GenAI Genesis

Toronto, ON

- Inksight uses a **FastAPI** server to capture a picture of handwritten notes via a physical device that automatically flips through pages. We use Google's Vision **OCR API** to translate the handwriting into text. The text is then **embedded and vectorized** to deploy a custom chatbot based on Gemini Flash 2.0 to prevent hallucinations.
- Aimed at **empowering** humans, this device allowed users to continue to write handwritten notes with all of the advantages that digital notes provide, with the addition of allowing users to use natural language to **communicate** with their notes.

PERCEIV/IO [\[Link\]](#) - AI + a tactile braille display to assist the Deafblind community.

Sep. 2024

Convex Best Full Stack Project Award Winner @ HackTheNorth

Waterloo, ON

- In a group of 4, brainstormed and produced in creating both an image capturing device capable of converting an **image to text**, text into braille, which would then be displayed through a pair of rotating disks encased in a 3D-printed enclosure.
- I used **Groq's** image-to-text endpoint and then Groq's **Llama** endpoint to condense the description of the surroundings, which was then sent to an algorithm which controlled two servos attached to a **Raspberry Pi** to display the correct cells.

DUBIT [\[Link\]](#) - An AI-powered enterprise dubbing solution for industry leaders.

Jan. 2025

Innovations for Societal Benefit in Canadian Computer Science Award Winner @ GeeseHacks

Waterloo, ON

- DubIT is our integrated **AI-powered automatic video dubber**, intended to be used by industry giants such as Netflix, Prime Video, Hulu, Disney+ and more. Over **100 languages** supported via **Google Speech API**, with voice-matching.
- My contributions involved the **translation-audio-AV** pipeline, as well as designing and implementing the front-end.

SKILLS

Python, Java, C, Assembly, R, Data Structures & Algorithms, Software Architecture, PyTorch, LLMs, DevOps, Git, Adobe products including Illustrator, Photoshop, and InDesign, FL Studio, Docker, REST API, Socket.IO. Some experience with front-end technologies like React, NextJS, Tailwind, Vercel and more.