

Aidan Wang

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EDUCATION

University of Toronto, St. George

Computer Science and Cognitive Science

Toronto, ON

Sept. 2025 – Apr. 2029

William Lyon Mackenzie Collegiate Institute

Math and Computer Science Program, GPA: 97.4%

Toronto, ON

Sept. 2021 – June 2025

EXPERIENCE

Sunnybrook Research Institute

High School Intern

Toronto, ON

July 2024 – Aug. 2024

- Supervisors: David Martin & Dr. Meaghan O'Reilly
- Selected out of 300+ applicants for Focused Ultrasound High School Summer Research Program
- Implemented convolutional neural networks (CNNs) with U-NET architecture in TensorFlow
- Applied human CT-trained U-NET segmentation model to pig CTs in live experiments for spinal cord therapy
- Reduced 3D vertebrae model generation time from 3+ hours to 5 minutes

PROJECTS

LookAhead | *Python, Google Vision AI, OpenCV, PyAudio, SpeechRecognition*

- Hack the North Submission @ University of Waterloo
- Digital voice-activated assistant that describes objects to the blind using AdHawk eyetracking glasses
- Matched pupil-focus coordinates with Google Vision item boxes to deliver descriptions based on user gaze

Sort the 6ix | *Python, Flask, React Native, HuggingFace, Google Vision AI*

- Hack the 6ix Submission @ Toronto Metropolitan University
- Mobile app that informs user how to dispose of waste based on a real-time photo
- Used HuggingFace language model to classify Google Vision-generated image tags with Toronto Waste Wizard dataset for disposal instructions

Fever Fighters | *Java, Swing API*

- ICS4U Final Project @ William Lyon Mackenzie C.I.
- Single-player children's game where players learn how to survive a cold in three levels
- Demonstrated object-oriented programming for all sprite classes

ChemSim | *JavaScript, Canvas, Fetch API*

- ICS3U Final Project @ William Lyon Mackenzie C.I.
- Website with a 2D organic molecule builder and IUPAC name generator to support chemistry students
- Converted user-generated diagram into SMILES notation and inputted into PubChem library to retrieve name
- Developed HTML Canvas front-end with buttons for elements, bonds, editing tools, & IUPAC name display

AWARDS

Gold Medal | *North American Computational Linguistics Olympiad (NACLO)*

March 2025

Bronze Medal | *International Linguistics Olympiad (IOL)*

July 2022

Honourable Mention (×2) | *International Linguistics Olympiad (IOL)*

July 2024, 2025

1st Place in Behavioral Health | *HOSA International Leadership Conference (ILC)*

June 2024

1st Place & Nationals Qualifier | *University of Toronto Brain Bee*

March 2024

Honour Roll (Top 5%) | *Canadian Computing Competition (CCC)*

Feb. 2024

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS

Libraries: TensorFlow, PyTorch, NumPy, Matplotlib