Caden Chan

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Highlight of Qualifications

- Proficient in programming with Python, Javascript, HTML and CSS with a practical understanding of Java, C and C++
- Working knowledge of software frameworks Django, Flutter and Flask
- Moderately experienced in 3D CAD with Autodesk Inventor and Fusion360
- Strong collaboration skills, with the ability to express thoughts clearly, actively listen to others and collectively discover solutions
- Committed to continuously acquiring new knowledge and developing myself both professionally and personally
- Empathetic, resilient, self-aware, and motivated individual

Education

McMaster University   Sept. 2023 - June 2028
B.Eng. in Electrical and Biomedical Engineering   *Hamilton, ON*

Projects

Youtube Academy | *Google Developer Student Clubs Hackathon at McMaster University*   Feb. 2024
Relevant technologies: Flask, Flutter, Python, Youtube API, GeminiAI

- Developed a web prototype of an educational platform, which selects informational content from Youtube to support a user's learning, based on their input and interests.
- Advocated for accessibility in education in a team of 4, showcasing our platform at the GDSC McMasterU Solution Challenge Hackathon

CPRevivorator | *McMaster University Design Expo*   Feb. 2024 - Mar. 2024
Relevant technologies: Python, RaspberryPi, Autodesk Inventor, 3D Printing

- Designed and prototyped an automated CPR device with 3 fellow classmates, aimed at supporting paramedics with life-saving procedures.
- Interfaced with RaspberryPi and electronics to manipulate 3D printed gear mechanisms

Sumobot | *Sumobot Competition at McMaster University*   Oct. 2023 - Jan. 2024
Relevant technologies: Arduino, Autodesk Inventor, 3D Printing

- Built and designed an autonomous sumo robot in a team of 4 using Arduino and electronic sensors, to compete at McMaster's Beginner Sumobot Competition.

Experience

Assistant Teacher   Sept. 2019 - June 2023
Spirit of Math Schools   *Markham, ON*

- Coordinated classes of 20-30 students, from grades 3 to 11, to facilitate a rigorous curriculum.
- Engaged with teachers to develop strategies that encourage a friendly learning environment and stimulate a desire for learning.
- Independently led homework tutorials to resolve students' outstanding questions, with a focus on individualizing learning through one-on-one support.

Volunteer Tutor   Nov. 2021 - June 2023
Tutoring Club at Pierre Elliott Trudeau High School   *Markham, ON*

- Led personalized tutoring sessions for tutees to reinforce skills in math and computer science.
- Streamlined communication with tutees to encourage next steps for improvement, while organizing online meetings for flexible support, resulting in praise from tutees and a certificate for outstanding mentorship contribution.