IAIN MACDONALD

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OBJECTIVE

I am an inquisitive, diligent, and hard-working second-year computer science student at McMaster University. My aspiration is to pursue a career in the tech industry as a developer, and I am currently seeking a **2025 summer co-op placement lasting 4 months**. I am eager to apply my analytical and collaborative skills to a dynamic work environment.

EDUCATION

2023 - 2028 | McMaster University

Bachelor of Applied Sciences - Computer Science Co-op | 3.9 overall GPA

EXPERIENCE

STEM Camp | Camp Counselor | Jun 2024 - Aug 2024

- Taught kids ages 5-12 how to code in Python and block languages and led a STEM-themed curriculum with inquiry-based learning.
- Constantly communicated within a small team of 6 about kids' safety and STEM activities.

Tutor.AI | Software Consultant | March 2024 - Aug 2024

- Reviewed the backend code of a start up company that created an AI website to match tutors and students within schools.
- The backend Python program included Vectorization, Vector Databases, and Matching Algorithms which I all gave feedback on while also consistently communicating and working with the small team leading the project to achieve optimal code.

Steamoji | Learning Facilitator | May 2024 - Jun 2024

- Helped kids ages 5-14 learn about scratch coding, 3D printing, animation, photo editing, and problem solving techniques.
- Improved leadership skills through guiding and teaching up to 10 kids at a time in a fast-paced environment.

McMaster AI Society | Software Developer | Oct 2023 - Mar 2024

- Developing an innovative Python application that involves vectorizing different types of inputted documents, storing them in a database, and leveraging GPT-4 to provide accurate answers to user-generated questions.
- Utilizing advanced technologies, including LLM, Vectorization, Vector Database, and Similarity Search through API integration.
- Collaborating seamlessly within a team of 7 through GitHub, actively contributing to group sessions while engaging in discussions about design ideas during weekly meetings and daily reporting. Check out more about our project! GitHub

Digital Fire | IT Co-op Placement | Feb 2022 - Jun 2022

- Applied technical skills with precision to successfully set up, configure, and upgrade laptops and desktops, integrating hardware and software components to ensure optimal system performance and long-term reliability.
- Acquired coding proficiency to develop an office inventory system, resulting in improved organization and operational efficiency.
- Played a key role in important projects by working on hardware construction, and enhancing overall technology.

RELEVANT PROJECTS

JustTheInstructions (Chrome Extension AI Model) | May 2024 - July 2024 | GitHub

- Programmed in Python, JS, HTML, and JSON to create an AI Chrome extension that filters unnecessary text from recipe/DIY websites.
- The process included learning about how to train an AI model using public data which was used to filter websites as well as Google's extension system so that we could create a simple-looking product for anyone to use.

ACHIEVEMENTS

- Dec 2023: Google Hackathon Winner (Finished 1st place in McMaster's Google Developer Student Club's Hackathon Equality and Accessibility category). DevPost
- Jun 2023: Academic Excellence (Graduated top 8% of my graduating class with a 98.7% average).
- Nov 2021: Hatch Game Jam Winner (2nd in Canada). Utillized P5.js to make a full game within one month.
- Oct 2020: Hatch Digital Coded Art Competition Winner (1st in Canada). Used Processing Python to create NFTs.

SKILLS AND INTERESTS

- Web Development: React (since 2023), JavaScript within Google Appscript (since 2022), HTML (since 2023), CSS (since 2023)
- Backend/General Development: Python (since 2020), Java (2022), C (2024)
- Functional/Creative Programming: Elm (since 2023), Processing Python, P5.js (2017-2022). Proficient in Git & Google Docs/Sheets
- Golf, Basketball, Table Tennis, Piano, and Stock Market Investing