

Luca Mawyin

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Education

McMaster University | *Computer Science* Sep 2024 – Present

- Bachelor of Applied Science
- Relevant Courses: Data Structures & Algorithms, Computer Architecture, Web Design, Software Development
- Current Courses: Databases, Concurrent Systems, Automata & Computability, Algorithms & Software Design

Humber College | *Computer Engineering Technology* Sep 2023 – Dec 2023

- Relevant Courses: Electrical & Digital Circuits, Computer Hardware & Operating Systems

Experience

Sales & Management | *Carla's Cookie Box* Feb 2021 – Present

- Overseeing the expansion of reach of company audience through media advertisement, and the production of goods.
- Displayed understanding of web design and development principles through troubleshooting of backend company website operations.
- Exhibit outstanding customer service by identifying needs of customers, creating a welcome environment, and ensuring needs are met.

Projects

Derivative Calculator | *Haskell* Dec 2024

- Developed a program that allows users to derive and map values onto various mathematical functions.
- Implemented principles of functional programming to simplify complex expressions
- Improved reliability by creating built in program checking to validate system efficacy.

Discussion Forum | *JavaScript, PHP, SQL* Mar 2025

- Collaborated with a team of 3 to design a dynamic web app that allows various users to withing a class to communicate with each other.
- Developed using AJAX-based data retrieval with SQL and a responsive UI, improving usability across devices.
- Integrated user authentication and role-based permissions to ensure secure interactions.

Sign Language Detection | *Python* April 2026

- Developed a software to translate ASL gestures to english
- Utilized computer vision to register and accurately predict user hand movement
- Aggregate image data locally to allow for addition of new data for improved accuracy

Technical Skills

Programming Languages: Python, Java, C/C++, HTML/CSS, JavaScript, Haskell

Frameworks & Tools: Git, Linux, NodeJS, ReactJS, NextJS REST API, AJAX, Flask, Mediapipe, OpenCV, SQL, Arduino, MatLab

Languages: English, French