

CONNOR USATY

[linkedin.com/in/connor-usaty](https://www.linkedin.com/in/connor-usaty) | 905-808-8292 | [Website](#) | usatyc@mcmaster.ca | github.com/ConnorUsaty

Education

McMaster University

Sep. 2021 - Apr. 2026

Bachelor of Engineering, Computer Engineering (Co-op)

Hamilton, Ontario

GPA: 3.64/4.00

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Development, Linear Algebra, Multi-Variable Calculus, Advanced Probability & Statistics, Circuit Design & Analysis, Logic Design, Digital Logic

Extracurricular & Awards

McMaster Artificial Intelligence Society

Sep. 2023 - Present

Director of Education

McMaster University

- Ran the Education Team of the McMaster Artificial Intelligence Society.
- Spearheaded the development and presentation of AI/ML workshops to educate students on a variety of topics such as neural networks, and computer vision, as well as relevant technologies such as Keras, Tensorflow, and Pandas.

Golden Key International Honour Society

Sep. 2023 - Present

McMaster University Chapter Member

McMaster University

- Golden Key membership is invitation only to top-performing students based solely on academic achievements.
- Each year, McMaster University invites select high achieving students in the top 15% of their program.

Deans' Honour List

2021 - 2022 & 2022 - 2023

Award Recipient

McMaster University

- Awarded to students with a GPA of 9.5 or higher on McMaster's 12-point scale.

Projects

Pathfinding Algorithm Visualizer (React.JS, JavaScript, HTML, CSS) | [Website](#) | [GitHub](#)

- Created an interactive visualization tool for common pathfinding algorithms using the React.JS framework.
- Increased user engagement through adjustable animation speeds, and real-time maze generation algorithms.
- Implemented visual examples for A* Search, Dijkstra's, Breadth-First Search, and Depth-First Search algorithms.
- Features three different heuristic's for A* Search, and a full instructions menu with visual examples.

YouTube to MP3 Converter (Node.JS, Express.JS, JavaScript, HTML, CSS) | [Video Demo](#) | [GitHub](#)

- Developed a server-side application using Node.JS and Express.JS to handle HTTP requests and responses.
- Implemented error handling mechanisms that displayed appropriate error messages to the user interface.
- Utilized a RESTful API to make GET requests to a third-party API endpoint for data retrieval.

Sudoku Game and Solver (Python) | [Video Demo](#) | [GitHub](#)

- Developed a Sudoku game with an interactive GUI in Python using the PyGame library.
- Implemented a solver which utilizes a recursive backtracking algorithm to find a solution to any solvable game.

Work Experience

Edge Group

May 2022 - Aug. 2022

Assistant Project Coordinator

Vaughan, Ontario

- Oversaw multiple job sites across Ontario while being the sole on-site company representative.
- Collaborated closely with Project Managers as a key member of the Project Management Team.
- Contributed to the development and implementation of project plans while adhering to tight deadlines.
- Developed and maintained official start-up and closing documentation for job sites, ensuring compliance with regulations.

Goldfish Swim School

Sep. 2019 - Mar. 2020

Lifeguard & Swim Instructor

Oakville, Ontario

- Supervised and coached the school's competitive swim team, Swim Force.
- Designed and implemented customized swim lesson curriculum's that resulted in a 98% pass rate for my students.

Skills

Proficient: Python, C++, C, JavaScript, React.JS, HTML/CSS

Familiar: PyQt5, Keras, Tensorflow, sklearn, NumPy, pandas, Node.JS, Express.JS, Git, GitHub