

Yash Matharu

☎ (289) 788-9214 | ✉ matharuy@mcmaster.ca | 🏠 yashmatharu.com | 📱 yashm07 | 📧 yashmatharu | 🌐 yashmatharu

EDUCATION

McMaster University

Hamilton, ON

B.ENG ELECTRICAL AND BIOMEDICAL ENGINEERING (CO-OP) | GPA 4.0

Sept. 2020 - EXPECTED 2025

Awards Dean's Excellence Scholarship (\$7,500), TC Energy Community Leaders Scholarship (\$2,500)

Relevant Courses Data Structures and Algorithms, Principles of Programming, Introduction to Electrical Engineering

SKILLS

Languages Python, Javascript, HTML/CSS

Machine Learning Tensorflow, Keras, Numpy, Pandas, Scikit-learn, Seaborn, Matplotlib

Web Development React.js, Node.js/Express.js, MongoDB, Firebase, Bootstrap

Tools Git, Jupyter, Colab, Figma

EXPERIENCE

Research Assistant

Hamilton, ON

MCMASTER UNIVERSITY

May. 2021 - Aug. 2021

- Developed deep convolutional neural networks to classify different algae cells in drinking water
- Used transfer learning and fine-tuned pre-trained image classifier models resulting in 85% test accuracy with 150 images in dataset
- Implemented object detection algorithms to accurately detect algae cells in real-time

Languages/Tools: Python, Tensorflow, Keras, Jupyter

Innovator |

Toronto, ON

THE KNOWLEDGE SOCIETY (TKS)

Aug. 2020 - Jan. 2021

- Researched and learned about next-gen topics such as Artificial Intelligence and Blockchain
- Consulted for MIT non-profit organization, Pathcheck, to attract users in recently expanded states

Road Tour Crew Member

Hamilton, ON

CAMP 31

Jun. 2019 - Sept. 2021

- Communicated effectively with 100+ customers each day regarding orders, comments and any complaints
- Fulfilled customer orders in a timely manner to maintain high standards of customer service

PROJECTS

Kaggle Competitions |

Aug. 2021

- Competed in multiple kaggle competitions using data science and ML tools

Languages/Tools: Python, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras

YelpCamp |

Jul. 2020

- Developed a website which displays campgrounds in the area and their information such as, prices, location, reviews and description
- Utilized multiple APIs to add different features such as the Google Maps API

Languages/Tools: Javascript, Node.js, Express.js, MongoDB

E-commerce React |

Aug. 2021

- Developed an e-commerce application that allows users to shop for their favourite hobby electronic items

Languages/Tools: Javascript, React.js, React Bootstrap, Firebase

EXTRACURRICULARS

Student Ambassador

Hamilton, ON

MCMASTER UNIVERSITY - FACULTY OF ENGINEERING

Sept. 2020 - PRESENT

- Engages with students and families at school events to encourage students to pursue careers in engineering
- Speaks at recruitment events and panels to 300+ prospective students about McMaster Engineering

Product Manager |

Hamilton, ON

DSC MCMASTER

Dec. 2020 - Feb. 2021

- Led a team of developers, business analysts, and designers to create award-winning vaccination tracking application
- Conducted 10+ user interviews to gain an in-depth understanding of challenges within healthcare

Languages/Tools: React Native, Firebase