

## EDUCATION

McMaster University  
 B.Eng. Computer Engineering

Sept. 2017 to June 2022

## SKILLS

**PROGRAMMING LANGUAGES:** Python, C, C++, C#, Java, JavaScript, TypeScript, HTML, CSS, SQL, MATLAB, LaTeX, Verilog, Assembly

**FRAMEWORKS/LIBRARIES:** ASP.NET, Node.js, Express.js, Flask, Angular, React, Flutter, MSSQL, MySQL, MongoDB, Firebase, AWS, Azure, RESTful API, OpenCV, Darknet, Docker, Git, Bash, Powershell, Figma

## EMPLOYMENT

SOTI INC.

Cloud Software Developer Intern

Mississauga, ON

May 2019 to Aug. 2020

- Worked in an **Agile** team to develop, test, implement and maintain cloud based software with established processes
- Developed and maintained a **microservices**-based Cloud Management System that manages 10,000+ cloud production VMs, with **EC2** APIs using **C# ASP.NET** and **MS SQL**, deployed on **AWS**, in which SLA compliance got improved from 98% to 99.5%
- Redesigned and rebuilt CMS frontend using **Angular** and **Google Charts** based on Material Design
- Automated unit, integration testing in **CI/CD** pipeline using **NUnit**, **Specflow**, and e2e UI testing with **Protractor**
- **Coordinated** and **developed** a monitoring dashboard project for the company's orchestration system **from scratch to production** using **ASP.NET Core** and **Angular**, which improved operational efficiency by 300%

MCMaster UNIVERSITY, FACULTY OF HEALTH SCIENCES

Application Developer Co-op

Hamilton, ON

June 2018 to Aug. 2018

- Developed a web application used by Faculty of Health Sciences that generates medical simulation scenarios which aid in training 250+ health care providers annually, decreased the generation time by 50%
- Project built in **Node.js**, **Express**, **Bootstrap** and **MySQL**

## PROJECTS

BUDGET BUDDY (HACK THE NORTH 2019)

Sept. 2019 to Sept. 2019

- Developed a financial analysis web app using unsupervised learning model and TD da Vinci API.
- Project wrote in **Angular**, **Node.js** and **Python**, and deployed on **Microsoft Azure**

BANKING CAT (DELTA HACKS V)

Jan. 2019 to Jan. 2019

- **Won the prize of CIBC Challenge, Bridge Between Mobile and Retail Banking**
- Developed a ChatBot App to recommend the best banking solutions to the user based on their banking statements
- Built with Google's **DialogFlow** NLP Platform and implemented data analysis using Microsoft **Azure API**
- Deployed on Amazon Alexa, Google Assistant, and developed a web-frontend chatbot with **jQuery**, **Bootstrap** and **Node.js**

## EXTRACURRICULAR ACTIVITIES

MAC ROBOMASTER TEAM · PR Manager & Computer Vision Team Member

Sept. 2018 to Current

- Represented McMaster University to participate in the DJI RoboMaster Robotics Competition and achieved 3rd prize in 2019
- Authored grant proposals and marketing materials to bring in new sponsors, which has since raised \$6k+ in seed funding.
- Work in the computer vision division under a team of 50+ on deep learning, data scraping and computer vision for RC robots
- Implement CV(distance measurement and object-tracking) modules in **Darknet**(CUDA based)and **OpenCV**(C++) on NVIDIA Jetson TX2, and improved the aiming accuracy by 30%
- Work with control team on the interaction with CV module, using **STM 32**-based microcontroller and program using C

MCMaster SUMOBOT CLUB · President

Apr. 2018 to Aug. 2019

- Elected to **lead** team of 10 student executives organizing a robot club and hosting two sumo-robot competitions that challenges students to design their own autonomous fighting robots, which are pitted against each other in tournament-style, one-on-one wrestling matches, attended by 300+ participants among the university, learn more at <https://sumobot.ca>
- **Hosted** hands-on tutorials and workshops for beginners
- Club membership grew 60% in one year