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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: Express, Bootstrap, Flask, React.js, ASP.NET, AWS, MongoDB, Git, Bash, MSSQL, Node.js, Azure, OpenCV, Restful API, Angular, Tensorflow, Specflow, Darknet, Jasmine, Protractor

HARDWARE / TOOLS: Arduino, Raspberry Pi, Oscilloscope, Soldering, Linux, STM32, 3D Printing, Nvidia Jetson

EMPLOYMENT

SOTI INC.Cloud Software Developer Intern

Mississauga, ON May 2019 to Current

- Work in an Agile team to develop, test, implement and maintain cloud server software with established processes
- Develop and maintain a microservices-based cloud management system that manages 10000+ cloud VMs, with EC2 and S3 APIs using C#.NET and MS SQL, deployed on AWS
- Involve in designing and building new CMS frontend using Angular and Google Charts
- Automate unit, integration and e2e testing using NUnit, Specflow, and Protractor
- Lead and develop a monitoring dashboard project for the company's software license server from scratch using ASP.NET Core and Angular

MCMASTER UNIVERSITY, FACULTY OF HEALTH SCIENCES

Hamilton, ON May 2018 to Aug. 2018

Application Developer Intern

- Developed a web application used by Faculty of Health Sciences to facilitate a more efficient generation of medical simulation scenarios used for training healthcare providers, decreased the generation time by 50%, built with **Node.js, Express, Angular.js, Bootstrap** and **MySQL**
- Migrated the application and existing simulation data to the internal data center

PROJECTS

BUDGET BUDDY (HACK THE NORTH 2019)

Sept. 2019 to Sept. 2019

- Developed a web based financial analysis tool using unsupervised learning model and TD da Vinci API. Powered by Node JS server deployed on Microsoft Azure
- \bullet Frontend developed in $\bf Angular$ and used $\bf Google\ Cloud\ API$
- Project wrote in TypeScript, Node.js and Python

BANKING CAT (DELTAHACKS V)

Jan. 2019 to Current

- Developed a ChatBot to recommend the best banking solutions to the user by analyzing their uploaded banking statements.
- Built with DialogFlow NLP Platform and connected to the MongoDB Server on Google Cloud Platform, applied data analysis using Microsoft Azure API
- Deployed on Amazon Alexa, Google Assistant, and developed a web-frontend chatbot window.
- Project developed in HTML, CSS, jQuery, Bootstrap and Node.js

AWARDS

McMaster IMPACT Project · TOP 3 & BEST PRESENTATION

Dec. 2017

• Top 3 teams among 1st year engineering students

DJI RoboMaster Robotics Competition · 3RD PRIZE

Aug. 2019

• The participating teams independently develop different types of robots, and launch projectiles in a mixed-terrain battlefield.

ACTIVITIES

MAC ROBOMASTER TEAM \cdot PR Manager & Computer Vision Team Member

Sept. 2018 to Current

- Represent McMaster University to participate in the DJI RoboMaster Robotics Competition and achieved 3rd prize in 2019
- Authored grant proposals to secure funding and prepared marketing materials to bring in new sponsors
- Work in the computer vision division under a team of 50+ on deep learning, data scraping and computer vision for RC robots
- Implemented CV(distance measurement and object-tracking) modules in **Darknet** and **OpenCV(C++)** on NVIDIA Jetson TX2, and improved the aiming accuracy by 30%
- Work with control system division 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
- Host hands-on tutorials and workshops for beginners
- Club membership grew 60% in one year
- Learn more at https://sumobotca.wordpress.com