

JARVIS WANG

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Skills

PROGRAMMING LANGUAGES

Python

C

C++

C#

Java

JavaScript

TypeScript

HTML

CSS

SQL

MATLAB

LaTeX

Verilog

Assembly

FRAMEWORKS/LIBRARIES

Node.js

AWS

Azure

Angular

Bootstrap

SQL

Restful API

MongoDB

Git

Bash

OpenCV

Tensorflow

Specflow

Darknet

Jasmine

Protractor

HARDWARE / TOOLS

Arduino

Raspberry Pi

Oscilloscope

Soldering

Linux

STM32

3D Printing

Nvidia Jetson

Education

McMaster University
B.Eng. Computer Engineering

Sept. 2017 to June 2022

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 application that managing 10000+ cloud instances, with **EC2** and **S3** services 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**

McMaster University, Faculty of Health Sciences

Application Developer Intern

Hamilton, ON

May 2018 to Aug. 2018

- 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 **MS SQL**
- 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 app of financial analysis using unsupervised learning model and TD da Vinci API. Powered by Node JS server deployed on Microsoft **Azure** and Google **Firebase**
- Frontend developed in **Angular** and used **Google Cloud API**
- Project developed 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**

Iris(Gesture-Music Player)

Nov. 2018 to Nov. 2018

- Developed a gesture-controlled music player with RGB visualizer
- Used three IR sensors and one webcam (with **OpenCV**) as the gesture control module, integrated Spotify **Web API** and used signal processing (SciPy) to generate a spectrum from system audio input and encoded it to RGB Led array, built with **Python** and **C(Arduino)**

Extracurricular Activities

MAC RoboMaster Team · *PR Manager & Computer Vision Team Member*

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*

- Coordinate the **executive** team, **organize** club events and communicate with school departments
- Host tutorials and 2 sumo-robot competitions of over 300 participants