JARVIS WANG

wangj230@mcmaster.ca jarvi.me +1 647-927-3054 www.linkedin.com/in/jarvis-wang acejarvis

EDUCATION

McMaster University
Sept. 2017 to Current
B.Eng. Computer Engineering

RELATED COURSES

- Circuits and Systems
- Data Structure and Algorithm
- Microprocessor Systems
- Logic Design
- Principles of Programming

AWARDS

McMaster IMPACT Project ·
Top 3 & Best Presentation
Dec. 2017
• Top 3 teams among 900 1st year engineering students

VOLUNTEERING

Set-up & Information ·
First Robotics at McMaster
Hamilton, ON
Apr. 2018 to Apr. 2018
• Set up, promoted social in the pits and stands, directed people from DBAC to the Hall, and provided information service to the passing visitors and participants

SKILLS

Programming Languages: Python, C, JavaScript, Java, HTML, CSS, C++, MATLAB, Verilog, LaTeX, Swift, JSON, PHP, Assembly
Frameworks/Libraries: Node.js, Express, Angular.js, Bootstrap, Restful API, SQL, MongoDB, Git, Bash, OpenCV, AWS, Tensorflow, Android
Hardware / Tools: Arduino, Raspberry Pi, Oscilloscope, Soldering, Linux, STM32
Graphic Design: Photoshop, Illustrator, AutoCAD, Autodesk Inventor
Soft Skills:
Verbal and written communication, Teamwork, Planning, Team Leadership, Project Management

EMPLOYMENT

Application Developer Intern May 2018 to Aug. 2018
McMaster University, Faculty of Health Sciences Hamilton, ON
• Developed a web application to facilitate more efficient generation of clinical simulation scenarios used to train health care 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

Mathematics & Physics Tutor Jan. 2018 to May 2018
MacBridge Academy Hamilton, ON
• Worked on tutoring students from grade 4 to 12 in Math and Physics courses

Embedded Software Engineer Intern July 2017 to Aug. 2018
Wingtech Technology Co. Ltd. Shanghai, China
• Researched, designed and integrated scalable applications of VR headset in **C**
• Implemented software requirement analysis and **testing** for **RTOS** on the headset

PROJECTS

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 by Microsoft Azure API
• Deployed on Amazon Alexa, Google Home, and 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)

Music'o (Weather-based Web Music Player) Feb. 2018 to Feb. 2018
• Submitted to Hack the Valley II
• Develop a web application called Music'o, which aimed at helping people relax their mind, mood and body by playing music according to the weather in the current city
• Built in HTML, CSS, and jQuery with Yahoo weather, geolocation and Spotify Web API and host it on AWS

EXTRACURRICULAR ACTIVITIES

PR Manager & Computer Vision Team Member Sept. 2018 to Current
MAC RoboMaster Team
• Represent McMaster University to participate in the DJI RoboMaster Robotics Competition
• Authored grant proposals to secure funding and prepared marketing materials to bring in new sponsors
• Work with computer vision team on neural network training, data scraping and computer vision for RC robots
• Implemented CV(distance measurement and object-tracking) modules on NVIDIA Jetson in Python and C++, 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

President Apr. 2018 to Current
McMaster Sumobot Club
• Coordinate the **executive** team, **organize** club events and communicate with school departments
• Host tutorials and 2 sumo-robot competitions of over 300 participants