Jason Wang

Toronto, Canada · 416-918-5560 · Computer Engineering Student

I am a very hard-working student with a strong passion for learning. I strive to be a better version of myself everyday, I consistently sign up for new online courses and learn new knowledge. I'm intrigued by the computer software industry and all of its endless possibilities.

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Skills

- **Java** – 3+ years of experience
- **MATLAB** – 1+ years of experience
- **C/C++** – 1+ years of experience
- **HTML/CSS** – 2+ years of experience
- **JavaScript**– 4+ years of experience
- **Marketing** – 4+ years of experience

Projects

Life of Life - Java

A recreation of the board game – Game of Life, allows for online multiplayer using ***networking***, and incorporates an online chat. Program is structured using ***object oriented programming***.

Myst - Arduino - ELECTRIC CITY HACKS2018

Created a smart humidifier that has the ability to automatically control moisture in a certain area, can be used in indoor farms to prevent drought or over-humidifying. Used ***Arduino*** for the hardware, with the sensors required to make the product work. We used ***javascript*** for the website along with ***html***. Used ***C++*** for the Arduino software.

Physics Quiz Taker - Java

Created a custom quiz software for my grade 12 physics teacher. Gives him the ability to put in question templates and the software can provide unlimited practice questions. It also keeps tracks of students' progress and displays class weakness and trends. Utilized ***linked lists, binary trees***, and ***GitData*** to store user data. .

Kentucky Front Camera(KFC) - Arduino - MASSEYHACKS IV

Sensor for the visually impaired. I used the Arduino Uno for the entirety of this project along with a piezo speaker, an ***ultrasonic sensor***, ***PIR motion sensor*** and a battery bank for additional power. In addition, a KFC bucket was used for better display of the sensor, and a chest strap on was used in order for the sensor to be worn for the user.

Floor Alert Box - Engineering Design Project

Worked in an engineering design team consisting to try to solve the problem of low community participation during the Toronto Islands flooding season. Went through the engineering design process , wrote out an **executive summary**, **problem statement**, an **analysis of the environment**, **possible solutions**, and **proposed a final solution** with a working prototype. As the team leader, my responsibilities include planning out team meetings, reinforcing team rules and ensuring the team is on track towards the end goal.

Experience

University of Robotics Association - SUMO robotics

Designed a robot to compete in a 'sumo' competition with other robots. Using ***IR range finders*** to detect the position of the opponents and using ***light sensor***s to determine the borders of the arena. Using circuit design I designed the tech and soldered my own circuit board. Also programmed the ***microcontrollers*** to control robot movement using data collected from the sensors.

Education

University of Toronto - **Electrical Computer Engineering Student** - 2019 to 2023

Accomplishments

- **TD (Toronto Bank) Sponsorships**
  - Won award for the MYST project
- **Canadian Computing Competition**
  - Award of distinction
- **AP Scholar**
  - scored 5 on 3 AP exams(Computer Science, Statistics, English)
- **Electric City Hacks 2018 Finalist**
  - Finalist for the MYST project
- **Canadian Open Math Challenge**
  - Award of distinction
- **University of Toronto Honor roll**
  - 2019-2020 year