

+ SKILLS

Web Development: HTML, CSS, jQuery, React.JS, PHP, MySQL, Node.JS

App Development: Java, Android Studio, Python, TensorFlow, React Native, Processing

Additional Skills: Git VC, Arduino, AWS and Google Cloud APIs

+ PROJECTS

Foodie – Python, jQuery, HTML/CSS, AWS/Google Apis · Jan 2018 to Jan 2018

- Implemented the AWS Rekognition OCR API to parse text from pictures into actual text, Google Translate API to translate foreign menu items
- Coded dynamic front-end views for mobile web-app
- Led team to successful project completion in under 24 hours at Hack Concordia

ReadR – Python, TensorFlow : · Oct 2017 to Current

- Programmed and implemented from scratch a neural network (using TensorFlow) to recognize handwritten digits and characters from pictures.
- Working on equation recognition from pictures of graphs, also in process of building interface for users to upload or take a photo for evaluation.

Virtual Fighterz – Processing, Java : · Jun 2017 to Jun 2017

- Created a virtual fighting game where the camera picks up the player's joints via image processing and tracks them.
- Implemented a two player fighting mode connected via network.
- Designed a custom and efficient unit collision detection algorithm.

Autonomous Vehicle – Arduino, C++ : · Dec 2015 to Jan 2016

- Assembled and programmed autonomous robotic car that can maneuver many different obstacle courses
- Wrote simple object detection and avoidance algorithm with over 95% accuracy

More Projects can be Found at ZiGao.io and on my Github

+ EMPLOYMENT

Freelance

Ottawa ON

Full-Stack Web Developer
Jun 2017 to Current

- Designed **UI and UX**, created **mockups**, wireframes and control flow charts
- Programmed the front end of many websites using **HTML, CSS, jQuery and React**
- Developed server-side code and queried data requests using **PHP** and **MySQL**
- Configured online server hosting services and bought domain names
- Exercised good programming practices

Tim Hortons

Ottawa ON

Supervisor/Employee Trainer
Aug 2015 to Mar 2017

- Developed **leadership and communication** skills while training new employees, supervising them during shifts, and conducting monthly performance evaluations
- Established strong **time management** skills by organizing and prioritizing tasks in a fast paced environment

+ EDUCATION

University of Ottawa

Bachelor of Software Engineering

Expected 2022

Coursera – Stanford University
Specialization in Data Structures
and Algorithms

Coursera – University of Michigan
Specialization in Back End Web
Development

+ AWARDS

The Governor General of Canada ·
Governor General's Academic Medalist 2017

97 Average Gr.11, 98 Average Gr. 12

University of Waterloo ·
Canadian Computing Competition Certificate of Distinction 2017

Schulich Foundation ·
Schulich Leader Nominee 2017

University of Ottawa ·
Chancellor's Scholarship Finalist 2017

+ VOLUNTEERING

Canadian Cancer Society · Apr 2016
Event Organizer and Public Speaker to Jun 2017

- Demonstrated exceptional speaking skills in front of large audiences by performing a presentation for an audience of over 1000 people
- Learned to cope with high stress situations while managing financial budgets and coordinating performances and activities for an all day event involving several hundreds of community members