

+ EMPLOYMENT

Intel – Wind River Division

Ottawa, ON

Software Intern

May 2018 to Current, May 2018 to Current

- Implemented just-in-time code for **symmetric multi-processing** capability of the VxWorks **certified OS**
- Developed bash scripts for future environment setup and configuration, reducing time spent by **80%**
- Practiced software development and testing using **Agile** methodology

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

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

+ PROJECTS

Schedulus – Node.JS, Express, Firebase, Cisco Spark API ·

Feb 2018 to Feb 2018

- Created Cisco Spark chat bot that posts, configures, and updates schedules
- Configured Express server and set up Firebase for storing scheduling data
- Programmed parsing functions in Node.JS to return formatted schedules to users

Foodie – Python, jQuery, 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 Dec 2017

- 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

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

+ SKILLS

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

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

Additional Skills: Git VC, Arduino, AWS and Google Cloud APIs, Cisco Spark API, Bash Scripting, Linux

+ 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

Coursera – Stanford University
Introduction to Machine Learning

+ 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