

# MIRANDA HARRISON

## Seeking Software Developer Opportunities

📞 519-983-0253    @ mirandaharrison18@gmail.com    🔗 linkedin.com/in/miranda-harrison    📍 Hamilton, Ontario, Canada

### EDUCATION

#### Computer Engineering - B.Eng.

McMaster University

📅 09/2016 - 04/2021

📍 Hamilton, Ontario

- Currently in the final year of a 4 year undergraduate program
- 3.0 GPA

#### Exchange Studies

KTH Royal Institute of Technology

📅 08/2019 - 01/2020

📍 Stockholm, Sweden

- Participated in Exchange Studies for the fall semester, 2019

### WORK EXPERIENCE

#### Digital Developer Summer Student

Rogers Communications

📅 06/2020 - 08/2020

📍 Toronto, Ontario - Remote

##### Digital Team

- Designed, developed, and tested an automation tool to refresh environments in Apache Cassandra using Python and Jenkins
- Successfully reduced the refresh process time from 2 days to 4 hours

#### Software Developer

Clearcable Connects

📅 05/2019 - 08/2019    📍 Hamilton, Ontario

##### Software Team

- Worked in an agile environment as a full-stack developer working on a cable modem fault detection web application
- Integrated the proof of concept (POC) into an existing application using Python, PostgreSQL, and JavaScript (React.js, Redux.js)

#### Cloud Developer Co-op

Royal Bank of Canada

📅 05/2018 - 08/2018    📍 Toronto, Ontario

##### Cloud Architecture Team

- Created POCs of infrastructure and applications in AWS using its SDKs
- Introduced how AI could be integrated to the Continuous Integration and Continuous Delivery (CI/CD) Pipeline by using AWS's Rekognition API to scan and analyze images

#### Business Systems Analyst

Royal Bank of Canada

📅 05/2017 - 08/2017    📍 Toronto, Ontario

##### Mid-Tier and Legacy Simplification Team

- Responsible for participating in agile meetings, gathering requirements, data mapping, and creating API documentation for multiple small-scale projects

### TECHNICAL SKILLS



#### Programming Languages

Java, JavaScript (React), Python, C, SQL, CQL, Bash, Verilog, Matlab, HTML



#### Software Tools

Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure, Github, Github Projects, Gitlab, JIRA, Slack, Linux, Visual Studio Code, Eclipse, Matlab, Jenkins



#### Hardware

Raspberry Pi, Arduino, Altera DE2 Board, breadboard prototyping, soldering

### SOFT SKILLS

Teamwork

Communication

Problem Solving

Leadership

### EXTRACURRICULAR EXPERIENCE

#### Branch Chair

IEEE McMaster Student Branch

📅 09/2019 - 04/2020    📍 Hamilton, Ontario

Led a student community which provides services and hands-on learning to over 300 students.

- Managed 40+ members separated into 3 branch chapters and 7 committees which run events, workshops, and new initiatives
- Coordinated operations with the department of Electrical and Computer Engineering (ECE)

#### Computer Chapter Vice Chair

IEEE McMaster Student Branch

📅 09/2018 - 04/2019    📍 Hamilton, Ontario

Executive member of an IEEE branch focusing on allowing students to gain practical hardware and software skills.

- Assisted in leading chapter meetings to plan our initiatives
- Organized and taught 4 workshops related to Raspberry Pi and soldering

## HACKATHONS AND PROJECTS

### DeltaHacks VI Winner - ArcelorMittal Dofasco

📅 01/2020 📍 Hamilton, Ontario

A 24 hour hackathon working in a team of 4 other students. Our project was given a prize for the best use of IoT.

- Created a "smart garbage can" that sorts garbage from recycling using AI from GCP on a Raspberry Pi
- Contributed to all aspects of the project including leadership

### UofTHacks VI Winner - Smartcar

📅 01/2019 📍 Toronto, Ontario

A 36 hour hackathon working in a team of 4 other students. Our project was awarded for the best use of the Smartcar API.

- Created a web application where users log on to view their car's environmental impact and give them an opportunity to offset their carbon emissions
- Contributed to the back end development using Python and Azure

### RBC Cloud Innovation Challenge - Finalist

📅 06/2018 📍 Mississauga, Ontario

A 2-day internal hackathon ran by RBC Insurance. Our team of 6 members were among the top 5 finalists.

- Developed an artificial intelligence chat-bot using Microsoft Azure which asks the user questions and checks their eligibility for various insurance plans
- Contributed to the back end development and chat bot flow

### Personal Project - Amazon Alexa Facial Recognition

📅 2018 - 2019

- Designed and implemented an extension for Amazon Alexa which triggers a Raspberry Pi to take a picture, analyze it using AWS's facial recognition, and announce who is detected in the picture
- Successfully had the application working in an online Alexa simulator

## CERTIFICATIONS

### AWS Certified Cloud Practitioner (07/2018 – 07/2020)

Passed the certification exam by demonstrating knowledge of essential cloud concepts and AWS services, architecture, security, pricing, and support.

## PASSIONS



#### Learning

I strive to be a lifelong learner. I always seek out opportunities to learn new skills.



#### Focusing on the Details

I am very detail oriented and love digging into the gritty details of everything.



#### Teaching

I am passionate about sharing knowledge and acting as a mentor to anyone.

## EXTRACURRICULAR EXPERIENCE

### Exchange Student Buddy

#### MacAbroad

📅 01/2020 - Present 📍 Hamilton, Ontario

A mentorship program for incoming and outgoing exchange students at McMaster.

- Currently a mentor to 6 McMaster students participating in the Exchange Program
- Potential mentor to incoming exchange students from various schools

### Mentor/Volunteer

#### Go CODE Girl

📅 03/2020 📍 Hamilton, Ontario

An event for girls grade 7-10 to introduce them to careers in technology.

- Assisted in teaching a group of 20 girls with creating a theremin using an Arduino and electrical components
- Shared my experience with the girls encouraging them pursue technology

## RELEVANT UNIVERSITY COURSES

### Engineering Design - Capstone Project

A two-semester engineering project course working in small groups. Currently in progress.

### Data Structures

Data structures and algorithms including recursion, lists, stacks, queues, trees, hashing, and sorting.

### Software Development

Focusing on software design, documentation, interfaces, portability, and testing.

### Image Processing

Digital algorithms for image restoration, edge detection, transformation, interpolation, including a project using machine learning.

### Operating Systems

Processes and threads, scheduling, file systems, memory management, and resource protection of operating systems.

### Computer Networks

Overview of various types of networks, network layers, media access, error control, and the Internet.