

EDUCATION

McMaster University

Sep 2020 - Apr 2025

B.Eng, Computer Engineering (Co-op)

Cumulative GPA: 3.6 / 4.0

RELATED SKILLS

Tools and Technologies

Arduino, Bash, Express, Flask, Flutter, Git, GraphQL,
Keras, Linux, MongoDB, Node.js, NumPy, Pandas,
PostgreSQL, PyTorch, React, Selenium, Testing, Unity

Languages

Python, Javascript,
HTML, CSS, Java,
C#, C++, SQL

EXPERIENCE

Project Team Member

at McMaster AI Society

Sep 2020 - Apr 2021

- Performed academic research on state-of-the-art machine learning models to reference in our own work.
- Implemented the AlexNet CNN using Keras, for a convolutional discriminator as part of a GAN that makes regular images look like Claude Monet paintings.
- Worked with a small team using agile/scrum methodologies with frequent team meetings and standups.

Software Engineer Intern

at CheaprEats

Aug 2020 - Nov 2020

- Designed a Node.js server architecture to create an efficient GraphQL API for a Receipt Builder app **targeting 20+ food vendors**
- Wrote, unit/integration-tested and optimized seeder scripts in Node.js to generate mock data for a MongoDB database
- Demonstrated consistent usage of agile methodologies through frequent active communication with a small team

Chess Club President

at White Oaks Secondary School

May 2019 - Jun 2020

- Organized tournaments with other clubs, marketing initiatives, and fundraisers to raise money for chess equipment
- Used Google Apps scripting language automate a spreadsheet that keep track of player statistics, games, and ratings
- Pursued passion for chess through leadership of the club **consisting of 30+ students**

PROJECTS

Surely Insured

 **Geotab Challenge Winner - Hack the 6ix 2021**

A tool for car insurance companies that displays info such as the relative rate of traffic incidents, service time, and idling time, to make more informed insurance premium pricing decisions. I created the Flask endpoints and analyzed multiple raw Geotab telematics datasets with the Pandas library.

<https://devpost.com/software/surely-insured>

Raspberry Pi Temperature Controller

This is a minimalist CPU temperature monitor and fan controller for the Raspberry Pi. It stabilizes the CPU temperature by activating the fan through the GPIO pins when it exceeds a certain threshold.

<https://github.com/BornaSadeghi/Raspberry-Pi-Temperature-Controller>

CogniTalk

 **2nd Place - MasseyHacks VI**

CogniTalk asks job interview questions and records your voice to analyze your pronunciation, articulation rate, and speech duration in order to make suggestions for improving your communication skills. It is a Flask/Svelte.js web app that uses the Parselmouth framework for speech analysis.

<https://devpost.com/software/masseyhacks-2020>

CERTIFICATIONS

Linkedin Learning

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|---|----------|-------------------|----------|
| Python Data Analysis | Aug 2021 | Learning React.js | Jun 2020 |
| PyTorch Essential Training: Deep Learning | Aug 2021 | Learning Vim | Feb 2021 |
| Node.js: Real-Time Web with Socket.io | Jan 2021 | | |
| Learning Node.js | Jun 2020 | | |