

HIGHLIGHTS OF QUALIFICATIONS

- Developed excellent work ethic, teamwork, and leadership skills working as a Lifeguard/Swim Instructor/Deck Supervisor for the City of Mississauga
- Significant experience programming in Python, Java, C, and C++ through school, personal projects, and self-teaching, and industry experience
- Some experience with HTML, CSS, and NASM
- Certified in Standard First Aid with CPR-C
- Worked on the Static Analysis team for Synopsys Inc. in Calgary AB.

RELEVANT EXPERIENCE

Static Analysis Intern

May 2020 – May 2021

Synopsys Inc, Calgary AB

- Working on the Coverity Static analysis tool, fixing bugs within the C++ code base, and writing tooling in Python to automate reducing issue-causing benchmarks down to minimal reproducers
- Extensive use of BASH, Make, and Git.

Summer Research Assistant

May 2019 – August 2019

McMaster University, Hamilton ON

- Worked with XML files to update a flight simulation program's C++ XML library from Arabica to pugixml.
- Analyzed and labeled drone footage to improve a machine learning tracking algorithm

EDUCATION

Bachelor of Engineering, Software Engineering

September 2018 – April 2022

McMaster University, Hamilton, ON

Achieved a GPA of **11.6/12** as well as the Dean's Excellence Award

Relevant Courses:

- | | |
|----------------------------------|---------------------------------|
| • Discrete Mathematics I & II | • Software Development Skills |
| • Data Structures and Algorithms | • Digital Systems & Interfacing |

PERSONAL PROJECTS

- [Java Platform Game](#) 2017
 - Created a unique and fully functioning platform game using only Java graphics.
- [Flamingo Web App](#) 2020
 - Created a mental health resource web application with a team of three others during **DeltaHacks 2020**. Built using HTML, CSS, JavaScript, and NodeJS.
- [Reddit Web\(\)](#) 2020
 - Created a web application with a team of two others as a final project, to visualize graphical connections between subreddit forums from [reddit.com](https://www.reddit.com)
 - Front end built with HTML, CSS, and JavaScript. The back end graph theory algorithms written in Java, using Maven.

OTHER EXPERIENCE

Lifeguard/ Swim Instructor/ Deck Supervisor
City of Mississauga, Mississauga, ON

October 2016 – August 2019

- Lifeguarded programs such as fun swims, lane swims, rentals, and fitness classes
- Taught swimming classes ranging from Swim for Life 1 to Star Patrol (ages 4 to adult)
- Supervised lessons, which involved a variety of problem-solving situations, such as managing teams of instructors, interacting with parents, evaluating children, and maintaining the pool deck

Teaching Assistant for Introductory Mechanics / Electromagnetism Physics
McMaster University, Hamilton ON

September 2019 – April 2020

- Conducted tutorials and labs
- Marked tutorial quizzes, midterms, and labs
- Invigilated midterms
- Assisted and taught first year students in solving physics problems

EXTRA-CURRICULAR ACTIVITIES & INTERESTS

- Rock Climbing club 2019
 - Weekly practices climbing and bouldering
- McMaster Competitive Programming Club 2019
 - Weekly meetings, practicing and learning algorithms and data structures used in competitive programming
 - Participation in the ICPC Programming Contest
- Intramural Ultimate Frisbee 2019
 - Weekly ultimate frisbee games
- Solved a wide variety of competitive programming contest problems 2017- Present
in Java and C++ (<https://dmoj.ca/>)

CERTIFICATIONS

Aquatic Supervisor	June 2018
National Lifeguard	June 2018
Standard First Aid & CPR C	February 2019
Swim Instructor/First Aid Instructor /Lifesaving Instructor	September 2018