

Work Experience

Kitchener Downtown Community Health Centre - SRHC

July 2020 – Oct 2020

Information Technology Analyst

Kitchener, Ontario

- Managed equipment upgrades with tight budget of \$10,000 and short deadlines.
- Improved networking and phone systems by adding new features and infrastructure.
- Boosted information sharing by enhancing interfaces between computer systems.
- Saved \$5,000 by implementing cost-saving initiatives that addressed long-standing problems.

Projects

StonkBot | Python, VS Code

GryphHacks — May 2022

- Utilized Discord Python API to create a discord bot that can run a mockery investing game.
- Incorporated financial APIs to retrieve stocks/crypto prices with real-time price updates.
- Built a python API that stores current players information and holdings as a JSON object for easy integration with possible future features.

Image Processor | Python

UoGuelph - Engineering & Design 3 - ZAMAZ Co. — April 2022

- Head of software development team, assigning roles and setting tasks.
- Incorporated SciPy, numpy, and matplotlib libraries to perform pixel calculations for Bar-Volumetric chip readout.
- Successfully implemented a software model that provides 16x faster and more reliable performance than the current golden standard.
- Ranked first in Engineering & Design 3 in-school competition with a price of \$2,000 among 50+ other teams.

Memory Management Simulator | C, VS Code

Personal Project — March 2022

- Explored Linux system calls to perform kernel level programs.
- Learned fundamentals of computer memory management, scheduling and operation.
- Created a memory management simulator using C to analyze the time and performance contrarieties of First fit, Best fit, Worst fit, and Next fit algorithms.
- Improved the performance of the simulator by 15% by optimizing the algorithms.

Lights Out | Java, VS Code

March 2020

- Followed MVC design pattern to implement the game logic equipped with a simple GUI. The logic utilizes FIFO queue to offer the capability to find the solution to the current board at all times

Education

University of Guelph

Sep. 2019 – May 2023

Bachelor of Engineering in Electrical and Computer Engineering

Guelph, Ontario

Skills

Soft Skills:	Team Work, Collaborative, Self Motivated, Adaptable, Capable, Communication
Hard Skills:	Object Oriented Design, Version Control, Software Testing And Debugging, Microprocessor Architecture Design, Digital Signal Processing
Object Oriented:	Python, C++, C, Java, Javascript
Web Dev:	HTML, Javascript (React JS, Node JS), CSS, Python (Django), SQL (MySQL)
Embedded Sys:	C, VHDL
Software:	Android Studio, Xcode, Git, Unix, ROS

Extracurricular

First Robotics Competition

Winter 2017, Winter 2018

Team Member

2702 Rebels

Skills Ontario Competition

Spring 2018

Team Member

Eastwood Collegiate Institute