

# Murtadha Nisyif

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## Education

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**University of Guelph**

*Bachelor of Engineering in Electrical and Computer Engineering*

**Sep 2019 – May 2023**

*Guelph, Ontario*

## Technical Skills

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**Hard Skills:** Object Oriented Design, Version Control, Software Testing And Debugging, Microprocessor Architecture Design, Digital Signal Processing

**Languages:** C/C++/C, Python(Django), JavaScript (React JS, Node JS), VHDL, Java, CSS, SQL (MySQL)

**Framework and Tools:** Android Studio, Xcode, Git, Unix, Keras, Tensorflow, Visual Studio, ROS

## Work Experience

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**Information Technology Analyst**

*Kitchener Downtown Community Health Centre - SRHC*

**Jul 2020 – Oct 2020**

*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
- Enhanced information and hardware sharing resulting in 20% increase in working environment efficiency
- Saved \$5,000 by implementing cost-saving initiatives that addressed long-standing problems

## Projects

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**StonkBot** | *Python, VS Code, Git, Matplotlib*

**May 2022**

- Facilitated players' data storage implementation to meet project budget and performance goals
- Integrated Discord Python API to create a discord bot that can run a mockery investing game
- Incorporated financial APIs to retrieve stocks/cryptocurrency 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, VS Code, NumPy, SciPy, Matplotlib*

**Apr 2022**

- Lead a team of 5 engineers in software development to incorporate a software solution to a UTI diagnosis device
- Incorporated SciPy, Numpy, and Matplotlib libraries to perform pixel calculations for Bar-Volumetric chip readout
- Developed a software model that provides 16x faster performance and is more reliable than the current gold 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, Git*

**Mar 2022**

- Adopted new learning paradigms to adopt system calls in Unix operating systems and develop kernel level programs
- Created a memory management simulator using C to analyze the time and performance contrarities of First fit, Best fit, Worst fit, and Next fit algorithms
- Improved the performance of the simulator by 15% by optimizing the searching algorithms

**Lights Out (Game replica)** | *Java, VS Code*

**Mar 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

## Extracurricular

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**First Robotics Competition**

*Builder, Programmer, Notebook Manager*

**Sep 2017, Sep 2018**

*2702 Rebels*

**Skills Ontario Competition**

*Builder, Notebook Manager, Lead strategist*

**May 2018**

*Eastwood Collegiate Institute*