

Murtadha Nisyif

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Education

University of Guelph

Bachelor of Engineering in Electrical and Computer Engineering

Sep 2019 – May 2023

Guelph, Ontario

Technical Skills

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)

Frameworks: Android Studio, Xcode, Git, Unix, Keras, Tensorflow, Visual Studio, ROS

Work Experience

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

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 from different engineering disciplines 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 utilize 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

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