

Murtadha Nisyif

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Education

University of Guelph

Bachelor of Engineering in Electrical and Computer Engineering

Sep 2019 – May 2023

Guelph, Ontario

Skills

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

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

Work Experience

Information Technology Analyst

Kitchener Downtown Community Health Centre - SRHC

Kitchener, Ontario

Jul 2020 – Oct 2020

- 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

May 2022

- Integrated 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

Apr 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
- 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

Mar 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 contrarities 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

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

Team Member

Sep 2017, Sep 2018

2702 Rebels

Skills Ontario Competition

Team Member

May 2018

Eastwood Collegiate Institute