Murtadha Nisyif

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Education

University of Guelph **Sep 2019 – May 2023**
Bachelor of Engineering in Electrical and Computer Engineering *Guelph, Ontario*

Work Experience

Information Technology Analyst **Jul 2020 – Oct 2020**
Kitchener Downtown Community Health Centre - SRHC *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*** **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/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**

- 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*** **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 contrarieties 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

Technical 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

Extracurricular

First Robotics Competition **Sep 2017, Sep 2018**
Team Member *2702 Rebels*

Skills Ontario Competition **May 2018**
Team Member *Eastwood Collegiate Institute*