Murtadha Nisyif

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Summary

- Utilized **System calls in UNIX systems** when implementing hardware simulations with C
- Completed courses in Algorithm Analysis and Data Structures to solve complex problems
- Applied **Object Oriented Programming concepts** and **MVC-model** to deliver game projects developed in **JAVA**
- Explored ways to utilize **TensorFlow, Keras and pyTorch** for image classification

Work Experience

Kitchener Downtown Community Health Centre - SRHC **July 2020 – Oct 2020**

Information Technology Analyst *Kitchener, Ontario*

- Work with tight budget and short deadlines for equipment upgrades
- 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

Investing Game | ***Python, VS Code*** **May 2022**

- Utilized Discord API to create a discord bot that can run a mockery investing game. Associated data for each player were stored in JSON file and manipulated using JSON Python libraries

Image Classifier | ***Python, Jupyter Notebook*** **April 2022**

- Compared current ImageNet algorithms such as EfficientNet, ResNet and VGG-16, to come up with an implementation to predict car model information at a better accuracy and in a more efficient manner

Image Processor | ***Python, Jupyter Notebook*** **April 2022**

- Utilized libraries such as SciPy, numpy, matplotlib to perform pixel calculations on an image and return useful info

Memory Management Simulator | ***C, VS Code*** **March 2022**

- Created a simulation program that simulates First fit, Best fit, Worst fit, and Next fit memory management 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

uOttaHack | ***Java, Android Studio*** **Feb 2019**

- Worked with a group to deliver an app that reads user's input off a keyboard that is printed on a piece of paper

Technical Skills

Languages: Python, C, Java, JavaScript, HTML, CSS, PHP
Software: VS Code, pyCharm, Matlab, Linux, macOS, Windows, Github, Anaconda
Robots: Kuka (KRL), Fanuc CR 4iA (Python), Baxtor(Python, ROS)
Relevant Courses: Data Structures, Discrete Structures, Operating Systems, Algorithm Analysis, Modeling Systems

Education

University of Guelph **Sep. 2019 – May 2023**

Bachelor of Engineering in Electrical and Computer Engineering *Guelph, Ontario*

Extracurricular

First Robotics Competition **Winter 2017, Winter 2018**

Team Member *2702 Rebels*

Skills Ontario Competition **Spring 2018**

Team Member *Eastwood Collegiate Institute*