

Murtadha Nisyif

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Education

University of Guelph

Bachelor of Engineering in 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)

Dev Env: Android Studio, Xcode, Git, Unix, Keras, Tensorflow, Visual Studio, ROS(1 & 2)

Work Experience

R&D Software Developer Intern

University of Guelph - Robotics Institute

Sep 2022 – Present

Guelph, Ontario

- Performed scripts safety analysis for user-robot arm based interactions
- Developed ROS2 packages primarily in Python and C++ interchangeably
- Implemented packages to bridge between nodes from different architectures (ROS1 and ROS2) for data manipulation
- Investigated and proposed alternative operation states architecture for enhanced functionality

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

Relevant Projects

buildNbox  | [React](#), [Git](#), [Node JS](#)

Aug 2022

- Architected and developed an computer parts streaming website
- Implemented a REST api for computer parts data retrieval
- Administered website traffic and maintained maximum performance during heavy incoming and outgoing traffic

StonkBot  | [Python](#), [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](#), [NumPy](#), [SciPy](#), [Matplotlib](#)

Apr 2022

- Led a team of 5 from different disciplines in engineering 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

Extracurricular

Gryphon AeroSpace

Software Engineering Executive

May 2021

University of Guelph

First Robotics Competition

Builder, Automation programmer

Sep 2017, Sep 2018

2702 Rebels

Skills Ontario Competition

Builder, Software Developer

May 2018

Eastwood Collegiate Institute