YAZAN MASOUD

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WORK EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER *Ottawa, ON*
Infinera Canada Inc. *Sept 2022 – Dec 2022*

- Designed and implemented suite of CLI commands in C++ that configure Digital Sub-Carrier Groups via CRUD operations.
- Instrumented SDK for heap memory and CPU profiling using gperftools with graphical representation via pprof and KCachegrind
- Wrote C++ unit test suite to test encryption bypass/passthrough mode on chip initialization using doctest
- Enabled port forwarding via IP tables to enable Docker container runtime (debug application) to communicate with custom MCU

SOFTWARE DEVELOPER *Toronto, ON*
Thomson Reuters *Jan 2022 – Apr 2022*

- Researched and prototyped OpenTelemetry integration for Legal Tracker APIs to generate and collect distributed traces for application performance and behavior analysis
- Identified and fixed vulnerabilities in .NET Core codebase using Veracode and SonarQube to meet the OWASP 2021 Standard
- Wrote unit tests in C# to increase Legal Tracker test coverage for legacy code by 8%

SOFTWARE ENGINEER *Mississauga, ON*
Cox Automotive Inc. *May 2021 – Sept 2021*

- Developed user stories in agile environment with ASP.NET Core and C# for car dealership applications
- Implemented UI updates using Angular to modernize the DealerTrack platform and ensure AODA compliance
- Configured backend email automation for customer financing inquiries

WEB DEVELOPER *Burlington, ON*
Halton District School Board *Sept 2019 – Feb 2020*

- Programmed Node.js application using Google's Directory API and transformed it to a production-ready web application with C#, HTML, CSS, SQL to audit third-party application use of staff G-Suite accounts
- Deployed by the Halton District School Board to monitor 6250+ staff replacing the manual report system

PROJECTS

NARUTO HAND SIGN CLASSIFIER *Mar 2022 – June 2022*
Personal Project

- Designed live camera image classifier for hand gestures using transfer learning
- Trained 12-class model comparing architectures of MobileNetV2, ResNet50, VGG16, and InceptionV3
- Leveraged OpenCV in Python to curate dataset, track hand movement, and make live predictions
- Achieved 93.60% test accuracy and 83.33% live demo accuracy with VGG16

SKILLS

PROGRAMMING: C#, C++, Python, JavaScript, SQL, HTML, CSS, Bash
TOOLKIT: OpenCV, Git, Unity, Adobe CC, Jenkins, TensorFlow, Keras, eRPC/gRPC, Zync SoC (Arm-Cortex A53), Linux, Docker, Xilinx Evaluation Boards,

EDUCATION

UNIVERSITY OF WATERLOO *Waterloo, ON*
BASc. Biomedical Engineering *Sept 2020 – Apr 2025*
GPA: 89.15/100, Dean's Honours List Spring 2022