Razi Nameerah

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EDUCATION

University of Waterloo *Sept. 2021 – April 2026*
Candidate for Bachelor of Applied Science in Computer Engineering *Waterloo, ON*

- **Cumulative GPA:** 90.07

SKILLS

- **Languages:** C/C++, Java, Python, JavaScript, HTML/CSS, PowerShell, ARM Assembly, VHDL
- **Frameworks/Libraries:** Selenium, jQuery, JUnit, Robot Framework, Pytest
- **Tools:** Git, Perforce Helix Core, Kubectl, Lens, Jenkins, Visual Studio Code, Eclipse, STM32CubeIDE, Jira
- **Hardware:** STM32 Nucleo, Keil MCB1700, FPGA, Arduino

EXPERIENCE

Software Developer Intern *Jan. 2024 – Apr. 2024*
Wind River *Ottawa, ON*

- Developed a unified test runner capable of executing, consolidating, and reporting test results from both **Pytest** and **Robot Framework**, enhancing test execution efficiency and reporting capabilities.
- Designed and implemented a custom Pytest reporting tool to enable generation of test reports with step-by-step results, providing increased visibility into test execution flow and points of failure.
- Enhanced a **Jenkins** test automation pipeline by integrating Kubectl and Helm installations, and resolving critical Chrome installation bugs on Linux, ensuring functionality of the pipeline for UI and CLI tests.

Firmware Developer *Jan. 2024 – Present*
UW Orbital *Waterloo, ON*

- Implemented a driver to interface with a **LM75BD** temperature sensor over an I2C bus, along with a thermal management task responsible for periodic temperature measurement and telemetry transmission.
- Developed a logging module to ensure consistent handling of error codes and log messages across all software components, resulting in uniformed logging practices throughout the project.

Software QA Specialist *Sept. 2022 – Dec. 2022*
OpenText *Richmond Hill, ON*

- Developed a **PowerShell** tool to automate test environment setup/cleanup, including product deployment/configuration, for scheduled regression runs, thus improving test scenario reproducibility.
- Extended automation for cloud-based environment creation in VMware Lab using the **VMware PowerCLI**, to create/remove/modify vApps and VMs from the command line, boosting environment setup efficiency.
- Identified and updated 130+ outdated **Selenium** test cases written in **Java** following a major UI upgrade, resulting in enhanced test stability, increased use case coverage and accelerated QA testing.

PROJECTS

Audio Morpher | *C*

- Developed a multi-threaded audio processing system which uses the producer-consumer model for efficient audio task management and data exchange among multiple threads.
- Utilized **cURL** for managing HTTP requests/responses when fetching audio data from the **Freesound API**.
- Implemented functionalities including reversing, doubling, and halving the speed of audio data, before leveraging the **libsndfile** library for writing the processed audio results to WAV files.

Roam Rover | *C++*

- Designed a multi-functional **Arduino** robot car featuring both manual and automatic modes.
- Implemented automatic functionalities including line following and obstacle avoidance using infrared and ultrasonic sensors, enabling the robot car to effectively navigate paths and mazes.
- Created a joystick controller for manual operation, establishing communication via **nRF24L01** modules.

Book Vault | *Python, JavaScript, HTML, CSS*

- Developed a dynamic book tracker web application to assist users in managing their reading materials.
- Utilized **Python** and **Flask** for the backend interaction with the user's library, stored in an **SQLite** database.
- Leveraged the **Open Library Search API** to provide users with a wide collection of books to search for, add and categorize in their library.