Bardia Parmoun

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EDUCATION

Carleton University

Sept. 2019 - PRESENT

Bachelor of Software Engineering (Co-op)

Ottawa, Canada

- GPA: 11.89/12 (3.99/4.0) | Graduation Date: 2024/04/30 | Awards: Dean's List and Carleton Academic Scholarship
- Teaching assistant for Computation and Programming (2020 & 2023) and Data Management (2021 & 2023).

SKILLS

Programming Languages: Python, Java, C, C++, Swift, JavaScript, Bash, SQL, PHP, Racket, Visual Basic

Technologies: Linux, SwiftUI, HTML/CSS, Bootstrap, jQuery, Node, Express, EJS, Mongo, PostgreSQL, MySQL, Docker

Tools: Git, Perforce, Jira, Eclipse, IntelliJ, PyCharm, VSCode, Xcode, Vim, GDB

EXPERIENCES

Microsoft - The Coalition Studio

June 2023 - Aug. 2023

Software Engineer Intern - Rendering

Vancouver, Canada

- Implemented a hard drive benchmarking tool for The Coalition Studio's custom Unreal Engine 5 using C++.
- Integrated two upscaling frameworks into the engine for evaluation and added a custom console variable for them.
- Helped develop a custom wind generator tool for the rendering team using C++ and HLSL.

Apple Software Engineering Intern - Wireless Technologies & Ecosystems May 2022 - Dec. 2022

Developed internal tools for Tap to Pay on iPhone, using Swift, SwiftUI, and Objective-C.

Participated in the verification of a Tap to Pay on iPhone framework and its new features for iOS 16.0.

BlackBerry QNX

Jan. 2022 – April 2022

Core OS Software Development Student

Ottawa, Canada

Montréal, Canada

- Performed various unit tests for the QNX kernel and filesystem, using C and gcov, achieving 100% coverage.
- Designed and conducted regression tests for the /proc filesystem, using C and BlackBerry's testing API, following **Automotive SPICE** to ensure the customer needs are being met and the components are behaving as expected.

Ross Video May 2021 - Dec. 2021

Software Developer - softGear

Ottawa, Canada

- Built two internal testing tools for the softGear team, AES67 Player and Recorder, to convert .raw audio to AES67 streams and generate custom tones, using C++, JSON, HTTP, and Docker; improved softGear's testing capacity by 20%.
- Accelerated the release of two of softGear's products, RSAP and NWE-IP, by resolving bugs and adding new features.

Nokia July 2018 - Aug. 2018

High School Intern

Ottawa, Canada

Created two calculators for Nokia's VNS/VCS services with Macros and VBA; improved sales automation.

PROJECTS

☑ Real-Time Elevator Simulator | Java, UDP, C-LOOK, State Pattern, XML, Serialization, Swing

April 2023

- Simulated an elevator control system in real-time using Java threads following the state design pattern.
- Utilized UDP to connect the components and implemented the C-LOOK algorithm to schedule the elevator requests.

LIBER: Online Bookstore | PostgreSQL, HTML/CSS, PHP, Apache

Jan. 2022

- Developed an online bookstore website using PHP and PostgreSQL that allows users to order books online.
- Designed and implemented the database in **PostgreSQL** with proper triggers, functions, views, and procedures.

Embedded Pong Controller | C, Python, Pygame, UART, GPIO, Serial

Dec. 2021

- Made an embedded controller, using a MSP432R board and the UART protocol, for a Pong game written in Python.
- Configured the LEDs, switches, and serial port with proper GPIO and interrupts, in C, to achieve real time responses.

Terminal Spell Checker | C++, Bash

July 2021

- Wrote an **object oriented** program in **C++** to scan a given text for spelling errors and provide suggestions.
- Created a command line interface (CLI) with various commands for scanning the input, applying suggestions, etc.

EXTRA CURRICULARS

Vice President Academic

Systems and Computer Engineering Society (SCESoc)

Jan. 2023 – April 2023

Ottawa, Canada

· Organized and held academic workshops and events for the Systems and Computer Engineering students.