




# BARDIA PARMOUN

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## EDUCATION

### Carleton University

Bachelor of Software Engineering (Co-op)

Sept. 2019 – PRESENT

Ottawa, Canada

- **GPA:** 3.99/4.0 | **Graduation Date:** 2024/04/30 | **Awards:** Dean's List (2020 & 2021) 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, Go, Visual Basic

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

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

**Concepts:** Software Design, iOS Development, Web Development, Embedded Systems, Real-Time Systems, QA Testing

## EXPERIENCES

### Microsoft

Software Engineer Intern

June 2023 – PRESENT

Vancouver, Canada

- Working as part of the rendering team for **The Coalition Studio**.

### Apple

Software Engineering Intern - Wireless Technologies & Ecosystems

May 2022 – Dec. 2022

Montréal, Canada

- 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

Core OS Software Development Student

Jan. 2022 – April 2022

Ottawa, 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

Software Developer - softGear

May 2021 – Dec. 2021

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

High School Intern

July 2018 – Aug. 2018

Ottawa, Canada

- Created two calculators for Nokia's **VNS/VCS services** with **Macros** and **VBA**; improved sales automation by **15%**.

## 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 thread** following the **state design pattern**.
- Utilized the **UDP** protocol to connect the components and implemented **C-LOOK** to schedule the elevator requests.

🔗 **Embedded Pong** | C, Python, Pygame, UART, GPIO, Serial

Jan. 2022

- 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.

🔗 **Online Bookstore** | PostgreSQL, HTML/CSS, PHP, Apache

Dec. 2021

- 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.

🔗 **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

🔗 **Systems and Computer Engineering Society (SCESoc)**

Sept. 2022 – April 2023

Vice President Academic

Ottawa, Canada

- Organize and hold academic workshops and events for the members of the Society.