

Boris Perdija

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TECHNICAL SKILLS

Programming Languages: C / C++, Python, Swift, C#, Dart, Kotlin, HTML, CSS, JavaScript, Bash, MATLAB
Frameworks, Databases and Tools: Angular, .NET, Bootstrap, OpenMP, MySQL, Google Firebase, Git, Jira, Jenkins, Coverity
Relevant Courses: Embedded Systems, Data Structures and Algorithms, Operating Systems, Computer Networking, Database Systems, Heterogeneous Computing Systems, Mobile Development, Client-side Development, Natural Language Processing (Grad level)

WORK EXPERIENCE

5G Software Developer Intern

September 2022 – December 2022

Dell Technologies

Ottawa, ON

- **Developed, documented, and tested 5G Layer 2 and Layer 3 features** and algorithms using C++
- **Reduced test execution time** by implementing functionality at L2 to dynamically determine and establish the appropriate timing configurations on the Layer 1 hardware, including checks for GNSS hardware support and TestSIM environments
- Utilized Wireshark to perform FAPI Logging to validate message exchange on the convergence layer
- **Performed end-to-end and regression testing** which included assessing UE attach and confirming 5G ping/traffic
- Exposed to 3GPP and O-RAN standards and interfaces, as well as various 5G emulators such as TestSIM

Software Developer Intern

December 2020 – September 2021

Overhead Door Vancouver

Coquitlam, BC

- Responsible for migrating the company's ERP from an **Angular Typescript** web application into **Blazor WebAssembly (C#)**
- Increased user efficiency and satisfaction by improving UI elements and implementing new Bootstrap features
- Built new controllers to handle Rest API communication for database information retrieval following the MVC model
- Worked with clients to define new feature requests and converted those needs into technical specifications for the senior programmer
- **Netted roughly 600 new potential sales by designing Python scripts** that pulled address data from existing websites to determine the areas nearby that would most likely need the company's services
- Utilized **GitHub** extensively to manage changes between two other developers

PROJECT EXPERIENCE

User Interface Team Lead - Capstone Project | *Dart, Flutter, Google Maps API's*

January 2023 - Current

- **Led the creation of a Flutter-based application** that takes positional data from firmware to show on a user interface
- Implemented Google Maps API, serial communication, and additional features including night-mode, zoom, pan, re-center, and previous location information following a Model View Controller (MVC) design
- **Managed a team of two** other developers and **completed the project days ahead** via regular scrum meetings and agile methods
- Created and pitched an entrepreneurial presentation on Proximo's ARP for pre-seed funding and placed in the top two finalists **netting \$1,000** due to deep market understanding, product design, and strong pitch

🔗 Linux UDP Chat Program - CMPT 300 | *C, VS Code, UDP Protocol*

April 2022

- Developed a chat program in C that enabled users at one terminal to communicate with a user at a different terminal
- Utilized **multithreading methods, mutexes, and the UDP protocol** to send and receive messages
- Concealed outgoing messages from unauthorized parties via cipher encryption

🔗 CPU Simulator – ENSC 251 | *C++*

July 2020 – August 2020

- Implemented a functional C++ **CPU simulator** that fetches, executes and commits instructions from binary formatted programs
- Developed to run in debug or execution modes, as well as output performance statistics including program latency and throughput
- Included appropriate exceptions to prevent the CPU simulator from being halted

EDUCATION

Simon Fraser University

September 2019 – August 2024

Bachelor of Applied Science (B.A.Sc.) - Computer Engineering Honours, Minor in Computer Science

Burnaby, BC

- National University of Singapore Study Abroad (January 2024 - May 2024)

LEADERSHIP EXPERIENCE

Engineering Science Student Society

President

May 2022 - April 2023

VP Administration

April 2020 - April 2022

- **Managed a team of 30** multidisciplinary student leaders and assisted in student affairs with post-COVID-19 strategies, representing 1,000 engineering students to faculty, engineering alumni and industry
- Facilitated the organization of a yearly career fair ultimately **bringing in 20 companies** and roughly **\$14,000+ in profit**