

DANIAL VALENTINO JABER

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EDUCATION

University of British Columbia

BASc. in Computer Engineering, Minor in Commerce

Vancouver, Canada

Exp. Grad Date: May 2026

TECHNICAL EXPERIENCE

Intel Corporation

Software Engineering Intern

Vancouver, Canada

May 2022 – Dec 2022, Full-time

- Developed **C** framework for analyzing code execution on containerized **Simics** simulation interface, reducing model build time by **70%** by identifying bloat and improving quality of all committed code
- Designed a project security **CI** workflow that detects proprietary access violations and resolves dependencies, which was adopted by over **40** other engineering teams across Intel globally
- Built out infrastructure model for **PiL** virtual platform, providing internal chip developers with a command-line toolkit for pre-silicon and post-silicon software development
- Contributed to the creation of loosely-timed **RISC-V** software models of hardware IP, by porting over **ARM** infrastructure and reworking **Python** boot scripts for changing customer objectives and optimal execution

UBC Supermileage ([link](#))

Team Captain

Vancouver, Canada

Sept 2021 – Present

- Leading a competition-winning team of **60** driven students developing software systems for **3** manned ultra-efficient vehicles, comprising a gasoline prototype, a fuel-cell electric, and a battery electric vehicle
- Innovated development and implementation of an **AWS**-integrated telemetry software system in **C++**, communicating a diverse range of live vehicle data, through a neat motorsport-like Grafana UI
- Integrated firmware in **C++** for a purpose-built brushless DC motor controller, regulating the operation of a manned Urban concept electric vehicle, with precise motor control and closed-loop position detection

PROJECTS

TextRx Medication Tracker ([link](#))

- Created a practical medication and reminder tool, through a trained **PyTorch** model for drug detection and an encrypted security layer for storing sensitive user information with **MongoDB**, built with **JavaScript**

Recipe Roulette ([link](#))

- Developed an **Azure**-hosted **Android** cooking service, promoting healthy meal planning and food-sharing initiatives, implementing the MVC design pattern through a **Java** front-end and **Node.js** back-end

Operating System Design ([link](#))

- Implemented pocket-sized **MIPS** operating system in **C** with use of **GDB**, including file and process system calls and a virtual memory system, enforced with synchronization primitives and protection mechanisms

Shell Program with Concurrency ([link](#))

- Designed a **Linux**-like command-line shell in **C** able to manipulate jobs and processes, with freedom to transfer concurrent processes between foreground and background, and complete signal/error handling

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, SQL, RISC Assembly, SystemVerilog, HTML, CSS

Tools and Technologies: Git, GitHub, Linux, Docker, Kubernetes, AWS, Azure, PyTorch, TensorFlow, MongoDB

Methodologies and Collaboration: Agile, Scrum, Kanban, UML, Jira, Confluence, CI/CD Tools, LaTeX, REST

Concepts: Data Structures and Algorithms, OOP, Software Engineering, Web Development, Machine Learning, Neural Network Design, Database Design, Debugging, Cloud Computing, Artificial Intelligence

AWARDS & ACHIEVEMENTS

Intel Foundry Services Organizational Quarterly Recognition ([link](#))

Aug 2022

UBC Engineering Dean's Honour Award

2020 – 2024