

# CLARK DARNEILL NOVEROS

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ClarkNoveros-SFUCS



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## Technical Skills:

**Languages:** C, C++, Python, JavaScript, CSS, R

**Tools:** VSCode, Git, Venus, Matlab

**Operating Systems:** Ubuntu, Linux, Microsoft Windows, Apple macOS

**APIs / Web:** Google Gemini API, Eleven Labs API, HTML

**Systems Programming:** RISC-V Assembly, C Vector Intrinsics

## Transferable Skills:

- Thrives in fast-paced, high-pressure work environments, yet delivering efficiency and quality.
- Demonstrates exceptional versatility and ability to quickly acquire and adapt to new concepts.
- Leadership and training experience, engaging and leading teams toward the accomplishment of goals.

## Technical Projects:

### **Data Structure Big-O Notation Analysis and Optimization** (Jul. 2025)

Data Structures and Programming: CMPT225, SFU

- Asymptotic Run-Time analysis through the summation of implemented methods, acquiring the optimal DS to use for SFU's library system.
- Run-time analysis on iteration and recursion for the reversal in singly linked lists by implementing definitions and recording the time for each cycle.
- In-depth comparison between Queue ADT vs. Queue STL by measuring its time complexity and understanding how each data structure works.

### **RISC-V Emulator** (Sep. 2025)

Intro. To Computer Systems: CMPT295, SFU

- Developed a RISC-V disassembler by translating 32-bit integer machine code into human-readable assembly code for readability and easy understanding.
- Implemented a RISC-V emulator by using masks and by the help of the ISA card as a guide for specifications and descriptions.
- Bullet proofed the program by running unit tests to ensure complete parsing, PC updates, and instruction decoding.

### **Numerical Feature-Based Music Genre Classification**

### **Using Supervised Learning Techniques: Utilizing K-Nearest Neighbours** (Nov. 2025)

Intro. To Artificial Intelligence: CMPT310, SFU

- We extracted data from Kaggle and ventured for feature dimensionality by gathering subsets of data through Librosa.
- Data refinement was done by re-ordering and inspection of query points using R to reduce noise.
- Trained our model by implementing a supervised learning method through KNN and 10-fold cross validation with the help of Scikit-learn Python packages.

## **Hackathons:**

### **SFU Surge StormHacks 2025:**

- Built LuxBot, a Google Gemini-powered mental-health companion, by integrating computer-vision emotion detection with multimodal AI to enable real-time, adaptive therapeutic conversations.
- Incorporated an animated motivational banner using dynamic front-end components to enhance user engagement and overall interface responsiveness.
- Integrated live facial-expression recognition with a natural-language response pipeline to remove human-computer interaction barrier.

### **SFU Fall Hacks 2025:**

- Built F1 Stock Match, a platform that maps Formula One teams to their corporate sponsors to help users easily invest and explore in related stock options.
- Implemented JavaScript-based API integrations to retrieve real-time stock data, historical trends, and market projections to provide users with accurate, data-driven investment insights.
- Developed a gradient based landing page with color grading based on each F1 team using CSS library methods for users to be immersed in the notion of speed and elegance of the sport.

## **Technical Interests:**

- Applied core data structures and algorithms (hash tables, linked lists, trees, search algorithms) and AI techniques (backpropagation, cross-validation, classification) to build efficient and intelligent software systems.
- Developed in C/C++ using object-oriented principles; encapsulation, modularity, and abstraction to create maintainable and scalable applications, alongside low-level programming in Linux, RISC-V assembly, and SIMD/vector intrinsics.
- Designed and implemented engaging, user-focused web interfaces, integrating modern frontend practices to support strong usability and interactive experiences.

## **Work Experience**

### **McDonald's Crew Trainer (September 2024 – Present)**

Lima Restaurants, Coquitlam, BC

- Ensuring all the procedures delivered and seen are up to high standard.
- Master's standard procedures in product preparation, cooking, and assembling.
- Teaches new onboarding crew of their foundations that they must uphold, and standard operating procedures.

## **Volunteer Experience**

### **Registration Team and Data Collection/Surveys (May 2025)**

Web Summit Vancouver 2025, Vancouver, BC

- Supported attendee registration by verifying credentials, managing check-ins, and ensuring efficient flow-through, contributing to a smooth onboarding experience for thousands of participants.
- Conducted on-site data collection and participant surveys using digital tools to gather feedback, track engagement, and support event analytics for post-summit reporting.
- Collaborated with event staff and external teams to resolve attendee issues, maintain accurate records, and uphold high standards of customer service throughout the conference.

## **Education**

### **BSc. in Computing Science (January 2025 – Present)**

- Simon Fraser University, Burnaby, British Columbia

