

Carson Jan

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EDUCATION

University of British Columbia

Bachelor of Science, Major in Computer Science

Vancouver, Canada

Expected Graduation: May 2028

- Average: **94%** (Computer Science), 90.6% (Overall). **Dean's Scholar**, 2024 – 2025
- Related Courses: Software Engineering, Operating Systems, Data Structures and Algorithms, Applied Machine Learning, Statistical Inference for Data Science, Mathematical Models of Computation

TECHNICAL PROJECTS

UniEvents, nwHacks 2026 | *TypeScript, Next.js, Supabase, PostgreSQL*

January 2026 – Present

- Integrated event discovery, recommendation, RSVP, and automated waitlist management into a **single unified platform**, eliminating the fragmented workflow of Google Forms, spreadsheets, and emails for student clubs
- Launched a responsive, type-safe frontend with **Next.js Server Components** that enables **one-click RSVPs**, event sharing via QR codes, and dynamic dashboards, reducing user friction while maintaining high performance
- Secured data access by implementing **PostgreSQL Row Level Security** (RLS) policies and database triggers, automating waitlist promotions while enforcing strict privacy controls for attendee data

Atomic Task Meter | *Java, Swing, JUnit, JSON*

January 2025 – April 2025

- Developed an **interactive GUI desktop application** that tracks estimated vs. actual task duration, replacing rigid calendar blocking with a flexible, atomic workflow for managing complex project milestones
- Implemented a **custom file-based persistence layer** using **org.json** to serialize complex object graphs, ensuring state recovery and data integrity across application sessions without external database dependencies
- Engineered a robust codebase with **100% JUnit coverage**, structured logging, and comprehensive technical documentation, applying **Agile principles** to ensure maintainability and rapid feature iteration

Google Form Open Automation Suite | *JavaScript, Google Apps Script*

October 2025 – November 2025

- Engineered a **trigger-based automation system** that manages form lifecycles and dispatches **customized event reminders**, enabling auto-scheduled availability and dynamic **response limits** without manual intervention
- Designed a user-friendly deployment workflow with **comprehensive documentation**, allowing non-technical administrators to configure complex automation logic and notification services **in minutes**

UBC Printer Map | *HTML, CSS, JavaScript, Geolocation API*

October 2025 – December 2025

- Launched an interactive map serving **250+ active users**, mitigating the frustration of finding on-campus printers by utilizing a GPS-enabled interface to instantly locate the nearest facilities **across 20+ campus buildings**
- Engineered a lightweight, privacy-focused frontend that processes **Geolocation API** data entirely client-side to calculate real-time distance sorting **without** requiring server-side tracking or external database dependencies

Palmbot | *Python, discord.py, pandas, NumPy*

September 2023 – January 2024

- Launched a Discord bot that **facilitated 300+ user interactions** across two club servers by dynamically serving school resources and enabling anonymous Q&A via the **Discord API**
- Implemented **secure data handling** with encrypted storage for sensitive volunteer logs and anonymous chat history, ensuring student privacy and increasing platform adoption

EXTRACURRICULAR ACTIVITIES

Analyst, Quantico Research

October 2025 – Present

- Engineered **quantitative trading strategies**, applied backtesting, and built data visualizations and **machine learning models** using Python / pandas to analyze commodities data and optimize portfolio algorithms
- Built official research portal with **Next.js**, modernizing brand identity and streamlining recruitment

President, UBC Baking Club

April 2025 – Present

- Led biweekly events** for **40+ attendees**, managing sponsor relations and external collaborations
- Built custom RSVP automation script, **saving 2+ hours/week** in administrative work

Member, UBC Competitive Programming Club

September 2025 – Present

- Implemented **high-performance C++ algorithms** solving problems under **tight time/space constraints**

Member, UBC Maple Bacon CTF Team

September 2025 – Present

- Reverse engineered binaries**, analyzed vulnerabilities, and decrypted programs in CTF competitions

SKILLS

Languages: English, Mandarin, Cantonese | Python, Java, C++, C, TypeScript, JavaScript, SQL, HTML/CSS, R

Web & Backend: React, Next.js, Node.js, FastAPI, Flask, Supabase, PostgreSQL, REST APIs

Developer Tools: Git, Docker, UNIX/Linux, Vercel, JUnit, Mocha/Chai, LaTeX, Figma, Postman