Carson Jan

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EDUCATION

University of British Columbia, Vancouver BC   Vancouver, Canada
Bachelor of Science, Major in Computer Science   *Expected graduation: May 2028*

- Last year average: **95%** (Computer Science), 91.7% (Overall). **Dean's Scholar**, 2024 – 2025
- Related Courses: Software Engineering, Operating Systems, Algorithms and Data Structures, Applied Machine Learning, Statistical Inference for Data Science, Mathematical Models of Computation
- Clubs and Extracurricular: President in Baking Club, Quantitative Researcher in Quantico Research, Member in Competitive Programming Club, Member in Maple Bacon CTF Team

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, JavaScript, HTML, CSS, TypeScript, R
Frameworks: JUnit, FastAPI
Developer Tools: Git, Docker, UNIX
Libraries: pandas, NumPy, Matplotlib, Request, Beautiful Soup, Discord.py

TECHNICAL PROJECTS

Atomic Task Meter | *Java, JUnit, Swing (Java)*
- Increased task completion by enabling **offline multi-project tracking** and time comparison (planned vs. actual) of finished tasks in a lightweight Java desktop app, reducing reliance on brittle and inefficient calendar blocks
- Improved reliability and usability with a GUI, persistent **JSON storage**, and **structured logging**, allowing instant resume/load of data and stable timing across sessions
- Ensured development speed and code quality by applying **Agile** development and achieving **100% JUnit coverage** in core modules and running comprehensive functional tests to achieve runtime stability

Google Form Open Automation Suite | *Google Apps Script (JavaScript)*
- Improved administrative efficiency for Baking Club by replacing manual Google Form monitoring and updates with a **one-time setup** of automation completed in **minutes**
- Developed a script that **automatically limits** response counts, schedules open/close times, sends custom event reminder emails, and displays dynamic closed-form messages

Palmbot | *Python, pandas, Request, Beautiful Soup, Discord.py*
- Enabled **300+ user interactions** in 3 months by launching a Discord bot that dynamically displays school resources and supported anonymous Q&A for two club servers, built with Python, Discord.py, and Requests
- Ensured student privacy by implementing **encrypted storage** for anonymous chat and volunteer-hour logs, increasing adoption among cautious users

Argon | *HTML, CSS, JavaScript, Python, FastAPI*
- Developed a full-stack web app that helps UBC students to find a roommate in off-campus housing

OOTDscribe | MongoDB, Express.js, Node.js, React (Vite), Tailwind CSS
- Designed an OOTD-suggestion web app with experienced developers and observed full-stack MERN development

ContApp | Figma
- Designed an NFC-based contact app and pitched the business concept & development plan