

Carson Jan

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TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, JavaScript, HTML, CSS, TypeScript, R

Frameworks: JUnit, FastAPI

Developer Tools: Git, Docker, Figma, UNIX, LaTeX, Excel, Sheets

Libraries: pandas, NumPy, Matplotlib, Requests, BeautifulSoup, Discord.py

TECHNICAL PROJECTS

Atomic Task Meter | Java, JUnit, Swing (Java) | Academic

January 2025 – April 2025

- Built a **lightweight project management** application in Java that tracks expected and actual finish time of tasks, reducing reliance on brittle and inefficient calendar blocks to manage schoolwork and personal projects
- 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 | copJavaScript | Personal

October 2025 – November 2025

- 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 | Personal

September 2023 – January 2024

- 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, HelloHacks 2025 | HTML, CSS, JavaScript, Python, FastAPI

October 2025

- Developed a **full-stack web app** that helps UBC students to find a roommate in off-campus housing

OOTDscribe, BCS Hacks 2025 | MongoDB, Express.js, Node.js, React, Tailwind CSS

March 2025

- Designed an OOTD-suggestion web app with experienced developers and observed full-stack **MERN** development

EXTRACURRICULAR ACTIVITIES

Analyst, Quantico Research

October 2025 – Present

- Developed and applied data analysis, decision algorithms, and machine learning models to quantitative trading

Member, UBC Competitive Programming Club

September 2025 – Present

- Applied high-performance algorithms in C++ to solve programming questions with tight time and space constraint

Member, UBC Maple Bacon CTF Team

September 2025 – Present

- Analyzed system loopholes exploits, reverse engineered and decrypted programs for cybersecurity study

President, UBC Baking Club

April 2025 – Present

- Organized biweekly events for up to 40 people, managed external relations with sponsors and collaborators

EDUCATION

University of British Columbia

Vancouver, Canada

Bachelor of Science, Major in Computer Science

Expected graduation: May 2028

- Average: **95%** (Computer Science), 91.7% (Overall). **Dean's Scholar**, 2024 – 2025