

# Carson Jan

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## TECHNICAL SKILLS

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**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, Request, Beautiful Soup, Discord.py

## TECHNICAL PROJECTS

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- 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

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- 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

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- 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