Geoffrey Jiang

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Education

University of British Columbia - Vancouver BC
Bachelor of Science – Major in Computer Science | 2024-2027

- *GPA: 4.2/4.33 (88%)*

Technical Skills

Languages (Proficient): JavaScript, Java, Python, C | **(Familiar):** C++, C#, R, Racket
Frontend Development: React, Next.js, HTML/CSS, TailwindCSS | **Backend**: Node.js, JavaScript, Typescript
Databases: PostgreSQL, MongoDB
Developer Tools & Other: Git, Vercel, Figma, Pandas, Conda, Matplotlib, Unity

Projects

Machine Learning Barbell Exercise Tracker (Python)
December 2024

- Developed a barbell exercise classification model and repetition counting script using 70K+ rows of accelerometer/gyroscope sensor data from 5 participants to advance fitness tracking technology.
- Implemented a feature extraction pipeline using **Butterworth filtering, PCA, temporal/frequency abstractions**, achieving **99%** classification accuracy through **forward feature selection** and **grid search optimization.**
- Engineered data cleaning pipeline using multiple outlier detection methods (**IQR, Chauvenet's criterion, LOF**).

Wellness Tracker – Finalist at NW HackCamp 2024
November 2024

- Led frontend development of a student wellness platform using **Next.js** and **React**, winning recognition for accessibility and user-centric design out of 250 participants.
- Designed and implemented responsive UI/UX through Figma wireframes and integrated News API to create dynamic content feed of wellness resources, implementing efficient data fetching and error handling
- Collaborated in 4-person team to integrate habit tracking and meal logging features for university students.

Nutrition Log Application (Java)
August 2024

- Implemented save and load functionality for individual users by **writing to and parsing JSON files.**
- Utilized **Java Swing** and **JComponents** library for the graphical user interface
- Developed to assist in macro tracking, meal logging, and goal setting.

Experience

LINE COOK | KOKORO TOKYO MAZESOBA
June 2023 – October 2023

- Demonstrated strong multitasking and team coordination skills in high-pressure environment, managing multiple concurrent tasks while maintaining quality standards

GATE SCANNER | PACIFIC NATIONAL EXHIBITION
August 2022 – September 2022

- Processed high volume of customer transactions and ensured accurate financial reporting, developed customer service skills.

Awards

NW HackCamp 2024 *– Finalist, Most Accessible Design*

NW Hacks 2025 – Croak Quest *- Best Beginner Project*