Evan Sun

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EDUCATION

University of British Columbia   Vancouver, BC
BSc Computer Science   *2024-2028*
- Cumulative Average: 90.7%
- UBC Thunderbirds Sailing Team

TECHNICAL SKILLS

Languages: Python, GoLang, Java, TypeScript, JavaScript, R, HTML, CSS, Swift, Bash, Racket
Tools/Database: Git, GitHub Actions, PostgreSQL, SQLite, Figma, Jupyter Notebook, AWS
Frameworks/Libraries: FastAPI, Gin, ReactJS, SQLAlchemy, Numpy, Pandas, Scikit-learn, ThreeJS, SwaggerUI
Other: RESTful API Design, OOP, OAuth 2.0, Data Wrangling, Data Visualization, Whitebox/Blackbox testing

PROJECTS

Spotify Nebula | *Python, FastAPI, SQLite - PostgreSQL, ReactJS, ThreeJS, HTML, CSS,*   August 2025 - Present
- Developed a full-stack music analytics platform that securely pipelines Spotify user listening data and visualizes audio features in a dynamic 3D ReactJS web interface
- Implemented OAuth 2.0 authentication and JWT bearer tokens to ensure secure client-server communication and protect user data
- Optimized external API calls using asynchronous concurrency to reduce overall latency
- Utilized SQLAlchemy and Pydantic to structure and validate user data, storing access tokens and metadata in a PostgreSQL database
- Processed raw audio features through clustering and dimensionality reduction algorithms (DBSCAN, t-SNE) in scikit-learn

Personal Website (Click Me) | *React, Figma, HTML, CSS*   August 2025 - Present
- Created a dynamic React application to showcase personal artwork, technical projects, and interests.
- Built a responsive masonry layout that scales automatically based on JSON-stored artwork data.
- Designed a modal popups using React hooks for seamless user engagement
- Applied modular, component-based styling to optimize re-usability and performance across views.
- Performed UI/UX prototyping in Figma

Filmeter | *GoLang, Gin, PostgreSQL, SwaggerUI*   June 2025
- Developed a lightweight backend API for film tracking and rating, using best practices for scalable and maintainable server-side development.
- Implemented secure CRUD functionality for relational databases, ensuring efficient and leak-free data flow.
- Integrated a test server to ensure endpoint reliability.
- Endpoints and Response Codes fully documented via SwaggerUI

TFT Board Planner | *Java, Swing, JUnit*   May 2025
- Modelled *Teamfight Tactics'* extensive entity hierarchy utilizing polymorphic behavior and inheritance to capture champion traits, interactions, and positioning
- Used JSON for data-persistence and session replayability

Player Prediction Analysis | *R, Jupyter Notebook*   May 2025
- Utilized R and TidyModels to classify newsletter subscription tendencies for a multiplayer minecraft server.
- Wrangled raw and incomplete player session data for readability and ease of use.
- Implemented and validated a KNN classifier model using five-fold evaluation.

Monte Carlo Simulation | *Java, R, JUnit*   Jan 2025
- Created a multi-threaded monte carlo stock price simulator in Java using geometric Brownian motion.
- Packaged and converted dense quantitative stock predictions into .csv and visualized using R and ggplot
- Designed simulation parameters to reflect varying market conditions and volatility scenarios.

Clima App | *Swift, Swift.UI, OpenWeatherMap Api*   Aug 2024
- JSON parsed data from OpenWeatherMap
- Developed rotational UI for light and dark mode

Community & Leadership

Sailing Instructor   June 2022 – August 2025

City of Calgary   *Calgary, AB*

- Taught all levels of the Sail Canada curriculum to youth and adults.
- Led and coordinated large skit-like briefings for 150+ students
- Was entrusted to manage and perform fiber-glassing, gel coat, and sewing repairs related to boat maintenance.
- Sailing Related Achievements: Western Canadian Champion 2023, Rookie of the Year 2023

Fundraiser Lead   May 2023 – June 2024

Catalyst for Code   *Calgary, AB*

- Started a local non-profit aimed at democratizing knowledge by re-purposing used technology to underprivileged youth
- Collected over 1500lb of unused technology
- Worked with local depots and distributors to recycle and donate tech

UBC Science Co-op

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