Josh Lin

Portfolio: https://linynjosh.github.io/

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

BSc in Computer Science

Sept 2020 — May 2025 | Vancouver, Canada

LINKS + INFO

- 🌐 https://linynjosh.github.io/
- ✉ linynjosh@gmail.com
- linynjosh
- in Josh Lin

SKILLS

PROGRAMMING

Python • Java • JS • TS • LaTeX • HTML • CSS • C++ • C • SQL

TOOLS

Git • Jupyter Notebook
Plotly • pandas • scikit-learn
React • MySQL • Heroku

INTERESTS

PROGRAMMING

Data visualization• Data analysis
Web design • Software construction

EXTRACURRICULAR

Basketball • Violin

COURSEWORK

COMPUTER SCIENCE

Applied Machine Learning
Intro to Relational Databases
Software Construction
Algorithms and Data Structures
Intro to Computer Systems
Intro to Software Engineering

MATHEMATICS

Multi-variable Calculus
Linear Algebra
Stats

WORK EXPERIENCE

AMAZON | Software Development Engineer

Summer 2023 • SDE Intern

- Creating solutions to run predictions on distributed systems with exposure to innovative technologies at incredible scale and speed.

SAP | Agile Developer, HANA and Analytics

Fall 2022 • SAP iXp Intern

- Developing software end-to-end: elaborating requirements, coding features and automated tests, and troubleshooting and resolving production problems.

GOOGLE SUMMER OF CODE | Open Source Contributor

Summer 2022 • Software Package Data Exchange

- Building a conformance checker to verify if a software bill of materials in **SPDX** format follows NTIA's elements guidance.

UBC | Teaching Assistant

Summer 2022 • Faculty of Computer Science (CS)

- Designing coding questions in Python for 1st and 2nd year CS courses.
- Constructing test suites with unit tests for auto graders in Docker containers.

PROJECTS

REAL ESTATE SEARCH PORTAL

Jan – Mar 2021 • code link

A real estate database that lets sellers post listings and buyers search for listings.

- Normalized table to reduce insertion, deletion, and update anomalies.
- **Utilized**: MySQL, Express.js, Node.js, React.js

TODO-APPLICATION

Jan – May 2021 • code link

A desktop app that manages tasks with categorization based on due dates or tags.

- Designed user interface to add, remove, and view tasks and reminders.
- Called APIs to read daily weather and news data from **openweathermap.org** and **newsapi.org** according to user input.
- Parsed weather and news data stored in JSON files with Java.
- Added data persistence to save and load todo list from file.

CRIME AND DEMOGRAPHICS: NYC

May – Jun 2020 • web app link

A web app visualizing the demographics of 5+ million crimes in New York City.

- Implemented the KMeans clustering algorithm in Scikit-learn to categorize crimes by regions and differentiate districts with high crime density.
- Built and deployed web app for visualization using Plotly, strealit, and Heroku.
- **Utilized**: pandas, Plotly, streamlit, Heroku, Scikit-learn