

FENGYU LI

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Education

Cornell University 2021 to 2025

B.A. with Honors in CS 2024
(Planned) M.Eng in CS 2025
Minor in ECE
Dean's List
Undergraduate GPA: 4.15

Technical Courses

Honors OOP Data Structs
Data Structs & Functional
Intro to Machine Learning
Intro to Algorithms
Intro to Backend Dev
Discrete Structures
Linear Algebra
Multivariable Calculus
Probability & Inference

Teaching Experiences

OOP & Data Structs

Skills

10000+ lines

Java
Python

1000+ lines

C/C++
JavaScript/TypeScript
HTML/CSS
Swift
OCaml
Markdown/Latex

Technical Stacks

ML (PyTorch, Tensorflow, Sklearn)
Data Science (NumPy, Pandas, Matplotlib)
Backend (Node, Express, Flask, Firebase)
Database (SQLite, MongoDB, DynamoDB, Firestore)
Frontend (React, Swift UI/UIKit, JavaFX)

Industrial Tools

Git/GitHub
Docker
VSCode/IntelliJ/XCode/vim
Jupyter Lab
Postman

Experiences

Cornell Design & Tech Initiative

Full Stack Developer

Ithaca, NY
Oct. 2021 to Current

- Contributed to the codebase of Carriage, a cross-platform web/mobile app that connects disabled students with on-campus drivers.
- Implemented backend endpoints using Express.js and Amazon's DynamoDB (in TypeScript).
- Refactored backend code to lighten internal dependencies and avoid unnecessary method calls.
- Reviewed others' pull requests and became familiarized with CI/CD workflow and DevOps such as GitHub Action.

InitialView

Software Engineer Intern

Beijing, China (Remote)
July 2021 to Aug. 2021

- Built a time tracking app that helps InitialView employees track how they spent their days using HTML, CSS, Material UI, React.js, and WebSQL local database.
- Led a group of interns in spotting errors and inconsistencies on the company's website. Taught usages of VCS and web inspectors.
- Cooperated with the marketing team in designing and translating videos to promote the company's online interview service.

SHUI Biosolution Technologies

Software Engineer

Beijing, China (Remote)
June 2021 to Aug. 2021

- Collaborated with a web designer on SHUI's official website using Figma and Ant Design.
- Built and deployed a multi-page bilingual website completely from scratch using HTML, CSS, Express.js, React.js, and MongoDB Atlas.
- Deployed website on Heroku with Google domain service.

UC Santa Barbara

Research Intern

Santa Barbara, CA (Remote)
June 2020 to Aug. 2020

- Accepted as a visiting high school student researcher in UCSB's research mentorship program. Conducted research on the application of time-series analysis and models including SARIMA on the forecasting of business prospects.
- Assisted a Ph.D. student in writing R programs for statistical modeling.

Projects

Kaggle Contributor · *Sklearn / PyTorch*

- (Top 10%) Predicted Titanic's survivors using multiple models with ensemble learning and also experimented with a dense NN. Published a notebook analyzing cross-model performance and received a bronze medal.
- (In Progress) Developed an NLP model to rate the severity of toxic comments on the Wikipedia Talk page.

Intelligent Life Simulator · *Java / JavaFX*

- Built a MVC-based Java software that simulates an intelligent life in a virtual world and interpreted its language with context-free grammar.
- 10000+ lines of Java code including a GUI built using JavaFX.
- Implemented data structs & algos including abstract syntax tree, recursive-descent parser, concurrent treeset, hashmap, and dynamic shortest-path on an abstract graph.

CU Lost & Found · *Flask / SQLite*

- Developed the backend flask server with session-based authentication for CU Lost & Found.
- Designed and built a multi-table database using SQLite and SQLAlchemy for ORM.
- Dockerized the server and deployed it on Heroku.

Personal Website · *HTML / CSS / JavaScript*

- Built a static personal website using plain HTML/CSS/JavaScript with Bootstrap components and JQuery.

Just Chat · *Swift / Firebase*

- As a practice project for an online bootcamp, I built the demo of a chatting app using UIKit and Firebase's Firestore database.