

Jiaming LIU

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EDUCATION

East China Normal University (ECNU)

Shanghai, China

B.S. in Software Engineering, GPA: 3.43/4.00

Sept. 2020 – July 2024 (Expected)

- Core Coursework: Data Structure and Algorithms, Computer Systems, Principles of Programming, Database Systems and Applications, Object-Oriented Programming Practice (Java), Operating Systems, Linear Algebra, Computer Networks

University of California, Berkeley

Berkeley, CA

Exchange Student, Berkeley International Study Program (BISP), GPA: 3.73/4.00

Aug. 2022 – May 2023

- Core Coursework: The Structure and Interpretation of Computer Programs, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Great Ideas of Computer Architecture (Machine Structures), Principles & Techniques of Data Science

INTERNSHIP EXPERIENCE

Ericsson

Shanghai, China

Software Development Engineer Intern

June 2023 – Present

Data Processing and Model Fine-tuning Specialist

- Co-developed the "CPI Generator", a **Generative AI** tool designed to help draft telegram documents.
- Developed **Python scripts** to automatically scrap webpages to collect training data for Generative AI model training with high data quality.
- Fine-tuned** the Llama 2 Generative AI model using Low-Rank Adaptation of Large Language Models (**LoRA**) approach to meet domain-specific needs, amplifying its precision and relevance.
- Addressed challenges related to generative AI, ensuring the tool met stringent quality and reliability standards.

Full-stack Developer, Mobility Control Plane Department

- Led the design and development of a **cross-platform** Web tool for JSON log analysis, **data extraction**, and **data visualization**.
- Conducted the full-stack development of the Web tool; realized the frontend using **Vue3**, integrating data visualization features through **Echarts**, and deploying as an Electron client application to enhance user experience.
- Utilized **Django** for backend operations and executed Python-driven data extraction processes to ensure efficient data flow and management; implemented **PouchDB** as a browser database to improve operational efficiency.
- Crafted and refined component style and user interface prototypes using **Figma**, ensuring coherent and user-centric designs.

Web System Developer for Ericsson 3GPP Innovation Project

- Collaborated to develop an intuitive web system for global employees to facilitate online protocol browsing. Integrated the **Haystack + Solr** search engine framework to support advanced abbreviation search functionalities, optimizing search results for user queries.
- Employed Flexsearch on the browser-side for individual agreements, enabling precise in-document keyword search, which enhanced the user experience when navigating through lengthy agreements.
- Deployed **Postgresql** on remote **Linux** using **Docker** for data management.
- Participated in both **frontend (Vue3)** and **backend (Django)** development, ensuring cohesive and seamless user experiences.
- Utilized Django drf_yasg backend Swagger as API documentation tool to improve the team's development efficiency.

DHC MediWay Technology Co., Ltd.

Beijing, China

Software Development Engineer Intern

June 2022 – Aug. 2022

- Collaborated to a **Vue2-Springboot** project by developing **front-end pages** and refining component style.
- Revised user documentation and conducted unit tests to identify major bugs before project bidding.

RESEARCH EXPERIENCE

Logic Guided Deep Reinforcement Learning for Thinnest Path Problem (TPP)

Remote

Software Engineer Institute, ECNU

Oct. 2022 – Apr. 2023

- Reviewed papers with topics including **reinforcement learning**, **machine learning**, and **combinatorial optimization**.
- Presented the reference notes in the weekly meetings; engaged in analysis and debugging of model code.

PROJECT EXPERIENCE

Design of Document Management System with Vue - Spring Boot

Berkeley, CA | Apr. 2022 – July 2022

- Served as the **team leader** to conduct demand analysis and oversaw the project's progress.
- Grasped new concepts of **HTTP protocols**, **Spring Boot framework**, and **Git**, used **Vue** framework and **Element-Plus** to set up the Front-End Web Development Project; created a back-end database for the website using MySQL.
- Drafted the course project report, which **ranked 1/30 of the class**.

COMPETITION EXPERIENCE

Design of College Students' Fitness WeChat Mini-Program with Uni-app

Shanghai, China

China College Students' Innovation and Entrepreneurship Competition

Nov. 2021 – Sept. 2022

- Participated in the demand analysis and market research of the health management mini-program at WeChat platform; conducted a comparative analysis with other health management APPs.
- Proposed to increase the social functions of the program to improve user experience.
- Used **Figma** to complete the **front-end UI design** (about 25 pages).
- Won the second prize at the university level with the proposed mini-program.

SKILLS

- Technical: **Python, Java, Vue3, Django, SQL, RISC-V, JavaScript/TypeScript, C/C++, Git, Swift/SwiftUI**
- Languages: Mandarin (Native), English (Fluent)