

Jiaming Liu

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EDUCATION

University of California, Berkeley

Exchange Student, Berkeley International Study Program (BISP), GPA: 3.73/4.0

Berkeley, CA

Aug. 2022 – May. 2023

East China Normal University

B.S. in Software Engineering, Major GPA: 3.4/4.0

Shanghai, China

Sept. 2020 – July. 2024

EXPERIENCE

Research Assistant

University of Alberta | Under the supervision of Prof. Samer Adeeb

Jan 2024 – Apr 2024

Edmonton, Canada

- Contribute to the development of **MecSimCalc**, an interactive web platform for creating and sharing computational tools, focused on both frontend **React.js** + **Typescript** and backend **Django** enhancements.
- Designing user-centric applications and integrating advanced features to cater to diverse educational and professional needs.
- Optimized user-configured Docker environments, enabling online provision, duplication, and saving of multiple environments and user-end settings.

Data Analyst Intern

Datatist, Inc.

Oct 2023 – Jan 2024

Shanghai, China

- Collaborated on cross-functional teams to integrate data insights into marketing and business strategies, enhancing campaign performance.
- Leveraged Python (**Pandas**, **Matplotlib**) and SQL for data analysis, increasing ICBC Shandong Branch's 60-day debit card retention rate by 22%.

Software Development Engineer Intern

Ericsson

June 2023 – Oct 2023

Shanghai, China

- Contributed **110K+** lines of code for a cross-platform JSON log analysis web tool, utilizing **Vue3** + **Typescript** for the frontend and **Django** for backend operations.
- Enhanced user experience by deploying as an Electron client application and integrating **Echarts** for data visualization, leveraging Python for data extraction and PouchDB for browser database optimization.
- Contributed to the Ericsson 3GPP Innovation Project by developing a web system for global online protocol browsing, incorporating the **Haystack** + **Solr** search framework and Flexsearch for advanced search capabilities.
- Enhanced data management and user experience by deploying PostgreSQL on remote Linux servers using Docker and participating in both frontend and backend development with **Vue3** and **Django**.

Software Development Engineer Intern

DHC MediWay Technology Co., Ltd.

June 2022 – Aug 2022

Beijing, China

- Collaborated to a Vue-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.

PROJECTS

User Persona Analysis and Interaction System | *Langchain, Python, LLM, Streamlit, Git* Jan 2024 – Present

- Led the user persona generation segment by leveraging **Langchain** and LLMs for analyzing social media posts, employing classification to define different chains for analysis across dimensions such as personality, emotional state, and hobbies, with a focus on quantitative scoring.
- Engineered the analysis framework to utilize LLMs for dynamic categorization, enabling tailored evaluations and insights into user personas through advanced computational linguistics techniques.
- Developed the interaction system by integrating user posts into the **Pinecone** vector database, employing the RAG architecture for enhancing query responses.

Document Management System | *Vue, Springboot, MySQL, Git*

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.