Jiaming Liu

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EDUCATION

University of California, Berkeley Berkeley, CA
Exchange Student, Berkeley International Study Program (BISP), GPA: 3.73/4.0 *Aug. 2022 – May. 2023*

East China Normal University Shanghai, China
B.S. in Software Engineering, Major GPA: 3.4/4.0 *Sept. 2020 – July. 2024*

EXPERIENCE

Software Development Engineer Intern Apr 2024 – Sep 2024 (expected)
Microsoft *Shanghai, China*
- To contribute to ⍟Microsoft/vscode-gradle project (**2.4 million+** downloads) by merging multiple Java virtual machine (JVM) processes into one unified JVM process.
- Will utilize **Java**, Gradle, and **TypeScript** to enhance the plugin's performance and streamline the user experience in VS Code.

Research Assistant Jan 2024 – Mar 2024
University of Alberta | Under the supervision of Prof. Samer Adeeb *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.
- Developing educational applications with advanced functionalities to meet various educational and professional demands, featuring integration with Gmail, Google Spreadsheets, and Canvas.
- Optimized user-configured Docker environments, enabling online provision, duplication, and saving of multiple environments and user-end settings.

Data Analyst Intern Nov 2023 – Jan 2024
Datatist, Inc. *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 June 2023 – Oct 2023
Ericsson *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**.

PROJECTS

⍟ User Persona Analysis and Interaction System | *Langchain, Python, LLM, Streamlit* Jan 2024 – Present
- Leverage **Langchain** and LLMs for analyzing social media posts, employing classification to define different chains for analysis across dimensions such as personality and emotional state, 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.