Xiaojie Zhou

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Summary

I am a computer science student at UCLA, where I am pursuing my master's degree after graduating from UC Irvine with a bachelor's degree in the same field. I have a strong interest in applying my technical skills to solve real-world problems and improve efficiency. I enjoyed working with a diverse and collaborative team, and learned a lot from the mentors and managers. I am eager to apply my skills and knowledge to new challenges and opportunities, and contribute to the success of the organization.

Education

University of California - Los Angeles   September 2023 - March 2025
Master's, Computer Science

University of California - Irvine   September 2019 - March 2023
Bachelor's, Computer Science   *GPA: 3.71*

Skills

Skills: Java, MySQL, JavaScript, TypeScript, React.js, AngularJS, Linux/Unix, Data Structures & Algorithms, React Native, Git, HTML/CSS, Web Development, Python, Excel/Numbers/Sheets, Agile, AWS, Bash, C/C++, Computer Networking, Figma, Firebase, Ionic, jQuery, Jupyter, Kotlin, Maven, MongoDB, Natural Language Processing (NLP), Node.js, NumPy, OpenGL, Pandas, PowerPoint/Keynote/Slides, PowerShell, Product Management, Python NLTK, Quickbooks, R, RDBMS, REST APIs
Languages: Mandarin, Chinese, English

Professional Experience

Intco Medical Industries Inc.   **Ontario, CA, USA**
Intern   *June 2020 - September 2021*
- Automated reconciliation of statements and invoices for efficient accounting processes.
- Implemented a digital time card system and integrated it with the accounting system to streamline payroll processes.
- Provided deskside support to troubleshoot tech-related issues of varying complexity.
- Set up new accounts for employees and deployed office equipment.

Projects & Outside Experience

Software Designer – INF 121   **Irvine, CA, USA**
Product Designer   *September 2021 - December 2021*
- Developed a software system to efficiently record and redistribute surplus food to organizations in need
- Conducted in-depth user and stakeholder interviews to gather and analyze system requirements
- Produced ER and UML diagrams using Figma and Draw.io for system visualization and analysis
- Implemented agile methodologies to enhance the efficiency of the design process and ensure adaptability to changing requirements

Overall Evaluation   **Shanghai, China**
Full Stack Developer   *October 2017 - September 2018*
- Developed an Android application facilitating convenient and effective student evaluation for K-12 teachers.
- Developed QR code recognition functionality using an open-source library
- Utilized MySQL to securely store data, encrypt sensitive information, and manage access control.
- Authored and published a paper in Chinese for Digital Communication World (2018.09)

Information Retrieval – CS 121   **Irvine, CA, USA**
Project Leader   *September 2021 - December 2021*
- Developed a robust search engine capable of processing tens of thousands of web pages under challenging hardware and network limitations, achieving a query response time under 300ms.
- Developed a web page crawler with a focus on politeness and efficiency, employing tokenizer, stemmer, HashMap, and partial index for effective page indexing.
- Implemented tf-idf ranking to optimize query processing and deliver highly relevant search results.
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Optimized memory usage and efficiency by strategically offloading the index multiple times and consolidating them afterwards.
- Implemented a hierarchical index to enhance the search process and improve search efficiency.

Image to Text for Screen Reader – INF 131   **Irvine, CA, USA**
Project Manager   *September 2022 - December 2022*
- Developed a Python-based prototype integrating Google's Vision AI cloud service to process images
- Enabled rapid image upload and real-time text description generation within seconds for user convenience.
- Attempted to integrate it with the screen reader software to automate the process and maximize convenience.

E-Commerce Full Stack Website Developer – CS 122B   **Irvine, CA, USA**
Full Stack Developer   *March 2022 - June 2023*
- Developed a film purchasing website with Java Spring backend and React frontend to facilitate online transactions and user interactions.
- Implemented Restful APIs to create all the endpoints for server responses, ensuring efficient communication between the server and the client applications.
- Developed a mobile application interface using React Native to provide a seamless user experience across multiple mobile platforms.

Website Supporting Hand Gesture Control – INF 131   **Irvine, CA, USA**
Front end Developer   *January 2023 - Present*
- Developed a custom music player website leveraging Spotify APIs to provide seamless music streaming functionality.
- Implemented hand gesture recognition feature using third-party tools to enable the website to detect various combinations of hand gestures
- Implemented hand gesture recognition functionality, allowing users to navigate and control the website without the need for a mouse.