

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

- IoT
- Machine Learning
- Cloud Computing
- Computer Systems Architecture

University of California - Irvine

September 2019 - March 2023

Bachelor's, Computer Science

GPA: 3.71

- Algorithms
- Data Structure
- Network
- Computer Organization
- Web Development
- Human-Computer Interaction

Skills

Skills: Python, Java, C/C++, Git, Node.js, TypeScript, React.js, REST APIs, Jupyter, NumPy, Pandas, MySQL, R, RDBMS, Machine Learning

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. Improved efficiency for accounts payable by 27%.
- 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.

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 to eliminate manual data entry.
- 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 150ms.
- 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.
- Implemented a hierarchical index to enhance the search process and improve search time efficiency by 15%.

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.
- Integrate the feature 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.
- Enabled identity management using a database storing salted and hashed data to maximize security.
- Integrated with Stripe as our payment service provider.

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.