XIAOJIE ZHOU

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EDUCATION

University of California, Los Angeles   September 2023 – March 2025
M.S. in Computer Science

University of California, Irvine   September 2019 – March 2023
B.S. in Computer Science | GPA 3.71/4.00
Dean's Honor List

TECHINICAL SKILLS

Programming Languages: C/C++, Java, Python, SQL, Visual Basic, x86 Assembly, JavaScript (TypeScript, React, Angular), R
Operating Systems: macOS, Windows (11, 10, 7), Linux
Concepts: Network protocols (TCP/IP, DHCP, DNS, etc.), Data Structures, Web Development, Search Engines, Dynamic Programming, Internet of Things, Information Retrieval & Management, Machine Learning & Data Mining, Human-Computer Interaction
Software: Microsoft Office, MySQL, Acrobat, Photoshop, Final Cut Pro, JetBrains, Visual Studio Code, GitHub, VMware, R Studio

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PROJECTS

Website Supporting Hand Gesture Control – INF 131   January 2023 – March 2023
- Built a custom music player website using Spotify APIs.
- Implemented the hand gesture recognition feature.
- Allow users to navigate through the website without using a mouse.

Image to Text for Screen Reader – INF 131   September 2022 - December 2022
- Used python and incorporated Google's Vision AI cloud service into my prototype to process images.
- Users can upload images, and text descriptions will be returned within seconds.
- Trying to integrate it with the screen reader software to automate the process that maximizes convenience.

E-Commerce Full Stack Website Developer – CS 122B   March 2022 - June 2022
- Built a film purchasing website using Java spring for the backend and React for the frontend.
- Implemented all the endpoints for server response.
- Built mobile application interface using React Native.

Software Designer – INF 121   September 2021 - December 2021

- Designed a software system that could record and redistribute a large amount of left-over food to organizations in need
- Analyzed the requirements for the system by interviewing users and stakeholders
- Created ER diagram and UML diagram using Figma and Draw.io
- Adapted agile model for the designing process

Information Retrieval – CS 121   September 2021 - December 2021

- Built a search engine from scratch that can process tens of thousands of Web pages under harsh hardware and network constraints and have a query response time under 300ms.
- Implemented crawler to download web pages with politeness and efficiently indexed them with tokenizer, stemmer, HashMap, and partial index.
- Implemented tf-idf ranking when processing queries to give the most relevant results.
- Balanced memory usage and efficiency by offloading the index multiple times and combining them afterward.
- Using hierarchical index to boost the searching process.

Overall Evaluation   October 2017 – September 2018

- Built an Android application that helps K-12 teachers to evaluate students more conveniently and effectively.
- Implemented QR code recognition function with an open-source library.
- Implemented MySQL to store data, encrypt sensitive information, and control access.
- Published a paper (in Chinese) on Digital Communication World (2018.09)

EXPERIENCE

Intco Medical Industries Inc.

Intern | Ontario, California, US   June 2020 - September 2021

- Wrote scripts to automate the reconciliation of tens of thousands of statements and invoices and made payments to various vendors without mistakes.
- Set up a digital time card system, updated the payroll system, and integrated with the accounting system.
- Troubleshoot tech-related issues of varying complexity through deskside support.
- Set up new accounts for new employees and deployed desktops and office equipment.