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: C/C++, Java, Python, Visual Basic, x86 Assembly, JavaScript (TypeScript, React, Angular), MySQL, Linux, Unix, Data Structures & Algorithms, React Native, Docker, Git, HTML/CSS, Web Development, Python, Agile, AWS, Bash, Figma, Firebase, Ionic, jQuery, Jupyter, Kotlin, Maven, ngrok, MongoDB, Natural Language Processing (NLP), Node.js, NumPy, OpenGL, Pandas, PowerShell, Product Management, Python NLTK, QuickBooks, R, RDBMS, REST APIs
Operating Systems: macOS, Windows, 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

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.