Zhao Pei (Andy) Liang

Email: zihun1392@gmail.com | Phone: (510) 325-8970 | [Linkedin](#)

SUMMARY

A Computer Science major with substantial software engineering experience, including an internship at Guardant Health, the Triple C project, and various course projects. I'm always eager to embrace new technologies within the software field to enrich my software engineering career.

EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO
Bachelor of Science, Computer Science   09/2021 - 06/2025
Relevant College Coursework
Data Structures and Algorithms (Java, Python, C/C++), Software Engineering (Agile software process), Database(SQL), Computer Graphic, 3D User Interaction, AI/ Machine Learning

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, HTML, JavaScript
Database: MySQL, MongoDB
Software Tools: Postman (API platform), GitHub, Latex, GIT, Web API, JUnit, ChatGPT/Whisper API, GitHub Actions CI, GitHub Project, Linux, Jira

PROJECT & TECHNICAL REPORT

Guardant Health, Software Engineering Internship (LIMS Team)   **06/2024-09/2024**
Stack: Java, JavaScript, SQL, Linux, Git
- Developed, designed, and configured on Labvantage, Laboratory Information Management System (LIMS), to enhance laboratory processes.
- Ensured the delivery of high-quality solutions that met user requirements effectively.
- Identified and analyzed existing system bugs, devising and implementing solutions to enhance system reliability.
- Collaborated closely with stakeholders to align software solutions with business needs, ensuring the final product met the expectations.

Back-end Web Developer, Triple C HR Management System   **04/2023-08/2023**
Stack: Python (Flask), JavaScript (ReactJS), MongoDB
- Developed back-end functionalities using Python and MongoDB database to build HR management system.
- Used Flask to develop endpoints for efficient data handling between the back-end and front-end layer.
- Implemented Json queries to store and retrieve HR information to manage the database.
- Collaborated with a team of five members to complete a website to manage HR information.

Software Engineer, Pantry Application   **09/2023-12/2023**
Stack: Java (JavaFx), MongoDB, Docker
- Developed an application 'PantryPal', a user-friendly application designed for managing and creating personalized recipes. The app integrated voice input for ingredient listing and provides tailored recipe suggestions based on available ingredients.
- Integrated ChatGPT AI, Whisper and Dall-E for efficient voice recognition and processing. Focused on enhancing user experience through intuitive navigation and interactive features like recipe creation, editing, and deletion.
- Participated in regular sprints, stand-ups, and retrospectives, contributing to continuous improvement and adaptive planning throughout the project lifecycle.

EXTRACURRICULAR EXPERIENCE

President, Gamma Gamma Driver Yugioh Club At UCSD   **11/2022-present**
- Coordinated tournaments each month, ensuring smooth execution and high member engagement.
- Organized collaborative events with other clubs, enhancing the club's network and community presence.
- Maintained and strengthened relationships with sponsors, securing support and resources for club activities and growth.