Jieyuan Liu

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EDUCATION

University of California, San Diego Sep 2019 - Dec 2023
- **Bachelor of Computer Science** GPA: 3.77/4.0
- **Honors**: Provost Honors

RELEVANT EXPERIENCE

Meituan, *Mobile Develop Intern* Jun 2022 - Sep 2022
- Fixed DianPing and Meituan apps' layout issues like hiding the navigation bar when scrolling and fixed the feed cards' round corners, optimizing user interaction with **TypeScript**.
- Built a message reviewing platform for the DianPing app, allowing the staff member to examine and block inappropriate messages more conveniently with **HTML**, **CSS**, and **JavaScript,** improving average daily message consumption by 7%
- Developed DianPing and Meituan apps' outbound tourism channel, adding functions like excluding hotels' non-official products, making the app more convenient for suppliers to popularize products with **Objective C**.

Kingdee international company, *Software Engineer Intern* Jul 2021 - Sep 2021
- Built a user-verification layer in a microservice using **Java** and **SQL,** decreasing fault login by 14%.
- Designed and Implemented authentication APIs that handle HTTP verification requests with **Spring**.
- Incorporated the authentication APIs into the existing version of the application using **JDBC template, MyBatis and MySQL**, allowing some of the microservices such as the developers platform to build on top of these APIs.
- Monitored APIs for doctors to ask for authentication for the user information with **Fiddler 4**, identified redundant information being passed out by the APIs, improving the application security.

Computer Community of UCSD, *Full Stack Software Engineer* Oct 2020 - Sep 2021
- Developed a multi-users sound board web project with **HTML/CSS, JavaScript, and React**.
- Deployed a HTTP server with DigitalOcean and **Apache** and built RESTFUL APIs for front end client
- Built the whole backend and all the APIs, Ex: user login, user registration, add record, edit record
- Designed data scheme, managed platform data in **MongoDB** and **mySQL**, and implemented ORM with **SQLAlchemy**
- Utilized server executed scripts **PHP** to form server modules and create traditional fork-exec CGI style applications.
- Used **NodeJS** as one of the server styles to manage all the dependencies of the web application

PROJECTS

Bird-of-Feather Android App (Java) Jan 2022 – Mar 2022
- Worked with a team to develop an android-based social app, Bird of Feather, that allows user students to search for and connect with nearby students who take the same courses using **Android Studio.**
- Applied **Agile principles** and methodologies by planning sprints, creating user stories and BDD scenarios**,** adopting design patterns like adapter and MVC, increasing the team's velocity by 0.41
- Designed and implemented the databases that save the user information, courses information obtained by the app using **android Room**, rendering the app the underlying functionality to add and subtract students' information
- Created unit and integration tests using **Robolectric, Junit and Espresso,** ensuring the stability of the app
- Implemented OOP design principle to relational database from student-course classes.

Nachos OS (C) Jan 2021 - Mar 2021
- Implemented context switch, thread management, and demand paging for Prof. Zhou's Nachos OS
- Built named pipes with an internal kernel buffer that follows producer-consumer pattern, adding a more efficient interprocess communication mechanism to the OS
- Developed the lazy loading and page replacement functionalities that allow programs to book more virtual memory

SKILLS

Programming Languages: Java, C++, C, Python, HTML/CSS, JavaScript, TypeScript, Objective-C, PHP, MATLAB, SQL, Swift
Databases: MySQL, MongoDB, Android Room, SQLite
Frameworks & Tools: Java Spring, Android Studio, React, React Native, docker, Jupiter, OpenGL, TensorFlow.
Other Skills: Agile software process, BDD, Mobile Software Development, Android & IOS Develop, Unit Testing, Object Mocking, Continuous Integration, OOP, Dependency Injection, Design patterns (MVC, REST, etc.), Deep Learning, Databases, Fiddler, GitHub, Git, Zenhub, JUnit, Espresso, Robolectric, Apache Modules, Digital Ocean Droplet, NodeJS