(Leo) Wanquan Zhang

Email: leoz10250@gmail.com • Phone: (909) 551-9509
Website: leoz.me • LinkedIn: linkedin.com/in/wanquanzhang
GitHub: github.com/Leo10250

Experience

Backend Software Engineer Intern at **Discover Financial Service**   June 2022 – August 2022

- Implemented **Redis** database to increase cryptogram management performance in **Postgres** database
- Developed a microservice tool that validates and reformats over 1 million account update requests from card issuers in **Java**
- Utilized **RabbitMQ** and **Kafka** to distribute re-processed account update requests

Software Engineer Intern at **Dudes of 708**   June 2021 – September 2021

- Developed inventory and money management mobile app in **React Native** for 100 beta users
- Refactored components and views, improving app load times by 75%
- Built complete user experience from the ground up, leading to $800K of items processed daily

Education

University of California, San Diego   GPA: 3.6

Bachelor of Science in **Mathematics-Computer Science**

Expected Graduation: June 2023

- **Coursework:** object-oriented programming, data structures and algorithms, ARM assembly, computer organization, multivariable calculus, differential equations, mathematical reasoning

Projects

File Compressor   January 2022 – March 2022

- Average **~40%** compression rate
- Efficient Header that stores the tree structure
- Built with *Huffman Encoding Tree* in **C++**

Bot-O-Mat   June 2021 – September 2021

- **Java** command-line application that simulates the workflow of automated cleaning robots
- Instantiated robot objects based on user inputs and complete tasks based on their own specialties
- Implemented custom **sorting algorithm** for the efficiency ranking of the specialized robots

Conway's Game of Life Simulator   January 2021 – May 2021

- Built game of life simulator with core logic in **C**
- Implemented resizable board and frontend in **Javascript** and **React.js**

Skills

- **Certificates:** AWS Practitioner Certificate
- **Languages:** Java, C++, Python, C, Javascript (ES6), HTML, CSS, ARM Assembly, MySQL
- **Frameworks:** Spring Boot, React.js, Adobe Experience Manager, React Native, Figma