

Miaoqiu Sun

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EDUCATION

University of California, San Diego

Expected June 2023

Bachelor & Master of Science in Computer Science (5-year combined BS/MS Program)

- Cumulative GPA: 3.52/4.00, Major GPA: 3.90/4.00 | Provost Honors Award earned in 2020 & 2021
- Relevant course: Data Structure & OO Design, Computer Architecture, Software Engineering, Operating System, Algorithms and Systems Analysis, Database Principles

EXPERIENCE

Hellobike, Inc

06/2021 - 09/2021

Software Engineer Intern

Shanghai, China

- Monitored and updated real-time passenger order data in backstage through **Java**, **Elasticsearch**, and **Kafka**, writing selected information into an organized search platform for quicker tracking that led to a 40% increase in productivity
- Solved problems such as data synchronization delay, data access optimization, and historical data refreshing via embedding debugging tools (**HLog**) and writing common configurations, helped reduce the labor force by 10 people per week
- Developed new features and completed maintenance on existing programs for the HelloTravel IOS app using **SpringBoot** and **Maven**, prioritized and resolved 25+ new features and bug fixes

sMedio, Inc

08/2020 - 10/2020

Software Engineer Intern

Shanghai, China

- Packaged the original app which is in use by 7000+ global users into framework and embed into a new project, providing external interfaces without exposing implementation, resolved the inability to load the storyboard and to play audio after embedding
- Designed and implemented 10+ new functions to optimize UI using **Objective-C**, including creating a floating button to switch interfaces directly, reordering storyboards, and rebuilding the initial interface, etc
- Passed unit testing with 100% coverage, improved the compile speed 20x faster, getting the client's approval

Sander Lab at UCSD

03/2020 - 06/2020

Lab Assistant

San Diego, CA

- Facilitated in a diabetes research project, analyzed thousands of data through **single-cell sequencing**, used **Python** for data visualization in **Unix**; identified a gene regulation program that might cause human β -cell dysfunction

PROJECTS

Potato Timer

- Collaborated with a team to build and improve a Pomodoro website using **HTML**, **CSS** and **JavaScript**
- Managed and developed both front-end design and back-end technical application, created 3 modes (dark, light, animation mode) with sound implementation and 4 different languages to increase the user experience, reproduced the Pomodoro principle
- Reached 99.52% coverage using unit testing, won second place and the "Most Creative Website" Award in the final report and presentation among 300 other students

Thread & Multiprogramming Implementation

- Employed **Nachos** to write **Java** files to keep the code working normally after enabling the interrupt mode, and improved efficiency to 1.2x higher compared to provided reference solution
- Managed address space by implementing system calls such as open/close, read/write, exec/join/exit, and loaded the program into virtual memory for user-level programs to invoke Nachos routines

Adopt Sea Lions - Online Fundraising

- Implemented basic front-end functions such as order display, status change, and adding and removing items
- Learned and tried to complete back-end services, such as using **MySQL**, **PHP** to manage databases and pages

SKILLS

- Java, C/C++, Python, Objective-C, JavaScript, CSS, HTML, VIM commands, Linux, Git/GitHub
- Nachos, SQL (SQLite3, MySQL), Assembly, MATLAB
- Microsoft Office (Excel, Word, PowerPoint)