Zhouqian(Jack) Lu

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Education

University of Southern California   January 2022–December 2023
Master of Science. in Computer Science
- GPA 4.0
- Honors: **Computer Science MS Honors Program**
- Course Producer in CSCI 570 Algorithm Analysis

Case Western Reserve University   August 2017–May 2021
Bachelor of Science in Computer Science, Specialization: Software Engineering
- GPA 3.65
- Honors: Dean's List 2017-2021, Dean's High Honors

Relevant coursework: Computer Graphics, Web Technologies, Programming Language Concept, Machine Learning, Internet Security and Privacy, Theoretical Computer Science, Computer Networks, Algorithm Fairness

Internship Experience

Leadstor, Beijing   July 2021–November 2021
Software Engineering Intern | Management System Team
- Built a Container Storage Interface driver for Kubernetes with Go, the driver provisions SPDK logical volumes on storage node dynamically and enables Kubernetes to access SPDK storage backend through NVMe or iSCSI
- Built a Cinder driver in Python, supporting Cinder Required Driver Functions such as creating and deleting volumes
- Wrote shell scripts to test the performance of company's storage products in Kubernetes and Openshift
- Designed and wrote unit tests for management system codebase

Involvement

CWRU International Collegiate Programming Competition Team, Cleveland   June 2018–May 2021
- Cofounded the team and earned departmental approval to represent the university in ICPC competitions; finished **top 30** at Youngstown site of 2018 ICPC ECNA regionals
- Prepared study slides for weekly practices and discussions
- Organized coding competitions in school to introduce students to ICPC, the club grew from 9 students to over 30 students over a year

The Friends of Euclid Creek Watershed, Cleveland   August 2019–August 2020
- Maintained an iOS app for a non-profit organization, the app helps users identifies wild plants in a local watershed

Projects

Yelp Business Search Web and iOS App   Fall 2022
- Created a web application and an iOS app which allow users to search for business information and display the results in a card and tabular format; features include map location, links to posting on social media and making reservations
- Used Express.js to serve routing endpoints and talk to the *YELP API* for backend service
- Deployed the backend server and frontend web on Google Cloud Platform

In Case You Need It   Spring 2021
Senior Design | Advisor: Prof. Shuai Xu
- Created a web application which generates suggested course schedules for students based on academic history and preference for break period; the application adds suggestion feature, simplifies course planning process, and has a cleaner API than the previous system
- Designed frontend with Django Rest framework and bootstrap

Interpreter for Java/C like Language   Spring 2020
- Built an interpreter for Java/C like language with Scheme, the interpreter accepts a file containing Java like code and runs the code. It implements features such as call-by-reference, function stack and polymorphism.

Skills

Languages: Java, JavaScript, TypeScript, Python, SQL, Go, C++, HTML, CSS, Swift
Frameworks/Tools: [Database] Redis, PostgreSQL   [Web] Angular, React, NodeJS, Flask, Django, Express
[Other] Kubernetes, Docker, GCP, Linux, OpenGL, Unity