

# Zhouqian(Jack) Lu

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## Education

### University of Southern California

January 2022–December 2023

*Master of Science. in Computer Science*

- GPA **4.0/4.0**
- 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 **3.65/4.0**
- Honors: Dean's List 2017-2021, Dean's High Honors

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

## Internship Experience

### Leadstor

*Beijing, China* July 2021–November 2021

*Software Engineering Intern | Management System Team*

- Led the design and development of multiple storage drivers, exposing company's storage systems to Container Orchestration Systems based on the Container Storage Interface (CSI) standard
- Built a CSI 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 for OpenStack 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
- Improved unit tests for management system codebase using Mockito to avoid external dependencies

## Involvement

### CWRU International Collegiate Programming Competition Team

*Cleveland, OH* 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
- Organized coding competitions in school for more than 50 students to introduce them to ICPC, the club grew from 9 students to over 30 students over a year

### The Friends of Euclid Creek Watershed

*Cleveland, OH* August 2019–August 2020

- Maintained an iOS app for a non-profit organization, the app helps users identify wild plants based on their input parameters

## Projects

### Yelp Business Search Web and iOS App

Fall 2022

- Created a responsive web application with Angular and an iOS app with SwiftUI, where users can search for and compare business information, and make reservations through browser's local storage
- Used Express.js to serve routing endpoints and talk to the *YELP API* for backend service
- Deployed the backend server and frontend web on the App Engine of 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 Case Western Reserve University's students based on their 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

### 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