# SHIZHAN LI 🔗 🐙

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## EDUCATION

**NEW YORK UNIVERSITY** — Jan. 2021 - Dec. 2022 (expected)
Master of Science in Computer Science, Courant Institute of Mathematics (GPA:4.0/4.0) **New York City**

**CENTRAL CHINA NORMAL UNIVERSITY** — Sep. 2016 - Jun. 2020
Bachelor of Science in Information Management and Information Systems (GPA:87.7/100) **Wuhan City. China**

## SKILLS

**Programming Languages:** **Java, Python, Scala, JavaScript, C, HTML/CSS, SQL**

**Development & Tools:** Apache Hadoop, Apache Spark, Spring Boot, VueJS, ReactJS, NodeJS, MySQL, MongoDB, Django, Git, Bootstrap, Postman, Linux, Docker, Kubernetes, Tableau, Agile Development (Scrum)

## WORK EXPERIENCE

### FRONT-END SOFTWARE DEVELOPER INTERN — May. 2022 - Aug. 2022
*X2Analytics* — *Newark, CA*

· Worked in a fast-paced **Agile** workflow with **Gitlab** and **Trello** to construct a NLP-based Recruiters and Talents Pairing platform which provides personalized solutions and boosts talent acquisition efficiency.

· Migrated the project website from Wix to the **Vue3 Composition API**, rebuilding **9** responsive pages from scratch using **Tailwind CSS** and resulting in a **70%** improvement in loading speed.

· Implemented dynamic website functionality and reusable components using **Vuex** for state management resulting in a **25%** faster delivery time and reduction in memory usage.

· Self-learned **Django** and collaborated with database and backend developers to design and implement schema and Restful APIs, utilizing technologies such as **Ajax**, **Firebase Cloud Storage**, and **MongoDB**.

## PROJECT EXPERIENCE

### HuaKitchen Chinese Food Takeout Platform

· Built a restaurant delivery system based on **Spring Boot**, **MyBatis Plus** and **MySQL** achieving employee and menu management, pagination, text verification code login, shopping cart, user ordering etc.

· Scaled the database with read and write split and used **Redis** to improve query efficiency with **Spring Cache**.

· Deployed static resources on **Nginx** with a reverse proxy service to enable frontend-backend separation.

### Customer REST API of an eCommerce Site

· Worked with team members to design and implement a **Microservice** using **VirtualBox** and **Docker**, following **Agile Planning procedure**.

· Created a comprehensive testing infrastructure using TDD and BDD practices, including more than **45** unit tests, resulting in a code coverage rate of **96%**. Tools used included **Gherkin**, **Nosetests** and **Selenium**.

· Refactored code using **Flask-RESTX** and **Swagger**, and deployed the service to IBM Cloud with an automated **CI/CD Pipeline**.

### TreeHole Emotion Sharing Application

· Constructed a fully responsive **MERN** emotion social application, fulfilling **JWT** authentication, search and filtering, favorites, recommendation and comments services with **ReactJS**, **NodeJS**, **MongoDB**, **MUI**.

· Centralized state management system with **Redux** and **Selectors** and reduced code duplication by 10%.

### New York Crime Distributed Big Data Analysis

· Achieved reliable and distributed storage of over **20G** data on **HDFS**, performed parallel data cleaning and analysis on **Apache Spark SQL**. Utilized **MLlib** library to build K-means and logistic regression model to predict crime rates and used Tableau to visualize the results.

### Email Sending and Receiving Service

· Developed 4 kinds of clients and servers based on **SMTP, POP3 and HTTP protocols** with **Flask** and Python **socket programming**.

· Tested end-to-end mutual communication locally and deployed the application to **Kubernetes** for automated scaling and management, including pushing images to Docker Hub.

### iOS MovieFun Application

· Developed an responsive iOS movie browsing application with **The Movie Database API** using **SwiftUI**, **CocoaPods** and designed user schema with **Parse**.

· Integrated **Gesture Recognizer** and **Segue** to display trailers in a Web View, as well as animations, search, infinite scroll, and pull to refresh functions to enhance the user experience.