Xingjian Wu

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New York City, New York

Master in Computer Science Graduating in December 2023 | Seeking Software Engineer Intern for Summer 2023

EDUCATION

Stevens Institute of Technology ⧉   Hoboken, New Jersey
Master of Computer Science   Jan 2022 – Dec 2023

Southern University of Science and Technology (SUSTech) ⧉   Shenzhen, China
Bachelor of Computer Science   Sep 2016 – Jun 2020

SKILLS

Languages: Java, JavaScript, Python, Shell, SQL, HTML, CSS

Tools: Maven, Git, Jenkins, Crontab, Swagger

Frameworks: Spring Boot, Vue.js, Docker, React, Node.js, Express, AWS, jQuery, Bootstrap, Linux, Apache Shiro, Spring MVC, Hibernate, MyBatis, Spring Security, JUnit, SSH

Software: Redis, RabbitMQ, WebSocket, Elasticsearch, MongoDB, MySQL, Nginx, Postman

PROFESSIONAL EXPERIENCE

Shenzhen Sailvan Network Technology Co., Ltd. ⧉   Shenzhen, China
Software Engineer   May 2021 – Feb 2022

- Utilized database sharding with **Apache ShardingSphere** on tables containing billions of rows
- Separated monitoring code to a new module and reused database connection module for loosely coupling
- Customized an alarm bot using WeChat group API to monitor the health metrics of servers through their heartbeat; further fixed a bug where long texts could not be delivered
- Refactored exporting data utilities and fixed a bug relating to exceeding the character limit
- Generated millions of pieces of test data using **SQL Stored Procedure** to test query performance across multiple tables; optimized them by 90% by adding cover indices and redundant fields
- Optimized large offset queries in **SQL** pagination by 95% through editing querying clause

SELECTED PROJECTS

Food Order System Similar to Uber Eats

- Added full-text search for Chinese descriptions utilizing **Elasticsearch** and optimized Chinese words segmentation
- Implemented token-based authentication with **Spring Security** and **JWT**
- Incorporated **WebSocket** and **RabbitMQ** middleware for high availability real-time notification
- Setup a **Jenkins** build server on an **AWS EC2** instance to maintain a CI/CD environment
- Utilized **Hibernate** as ORM framework and cache-aside pattern to keep consistency between **MySQL** and **Redis**

Virtual Items Marketplace Monitoring and Notification System ⧉

- Applied **Selenium** to simulate manual actions to scrape virtual items from marketplace websites
- Deployed the **Crontab** and **Shell** scripts to execute scraping and cleaning up of outdated data
- Designed dashboard web application to edit wish lists with **Bootstrap** and **Express.js**
- Built and deployed **Docker Compose** to Alibaba Cloud Elastic Computing Service

Tickets Booking System

- Integrated **Apache Shiro** to implement authentication and authorization between different roles
- Implemented RESTful API for tickets management in **Spring MVC** and designed database using **MongoDB**
- Customized and developed reusable Vue components in the **Vue.js** framework to construct web pages