

JIAZHAO SHI

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Education

New York University

Ms in Computer Engineering

Sep.2021 – May.2023

New York, NY

Rutgers University

Bs in Computer Science

Sep.2017 – May.2021

New Brunswick, NJ

Technical Skills

Courses/Skills: OOD, SpringMVC, SpringBoot, Maven, AWS, Web Development, Mobile Development, Machine Learning

Programming Languages: Java, C sharp, Python, JSP, HTML/React/JavaScript/Ajax/CSS, JSON/XML, TypeScript

Tools: JUnit, JMeter, MySQL, DynamoDB, MongoDB, Elasticsearch, Git/GitHub, RESTful, Apache Tomcat, MAMP

Experience

Amazon.com, Inc.

Software Engineering Intern

Sep.2022 – Dec.2022

New York, NY

- Built a data pipeline that read user data from **DynamoDB**, transformed it, and stored it in S3.
- Implemented **AWS Lambda** to update information, and **AWS Athena** and **Glue** to query and transform data.
- Monitored the performance of the data pipeline and scheduled periodic runs using **AWS CloudWatch**.
- Deployed and configured all AWS services using **TypeScript**, the project is now utilized by over **10** teams.

Ridge Security Technology Inc.

Software Engineering Intern

May.2022 – Aug.2022

Santa Clara, CA

- Developed a web-based system using **Redis** as the primary database for high-performance data storage and retrieval.
- Integrated **Grafana** to visualize Redis database metrics, providing real-time monitoring of the system.
- Utilized Redis as a **distributed cache** to improve the performance of frequently accessed data.
- Implemented **distributed locking mechanism** in Redis to ensure data consistency and prevent race conditions in multi-user environments.

Rutgers University

Research Assistant

Feb.2021 – May.2021

New Brunswick, NJ

- Designed a multi-agent gaming platform to enable users to customize soccer games with an agent count and strategies.
- Constructed self-designed **behavior tree** and **PPO algorithm** to develop **AI agents** with high-perform intelligence.

Kedacom Technology Co., LTD

Database Engineer Intern

Jun.2019 – Aug.2019

Suzhou, Jiangsu

- Implemented database backup and recovery solutions, restore strategies to ensure database availability.
- Migrated data and backup set disk spaces periodically and programmatically to make systems fault-tolerant.
- Renovated over **20** low efficient and redundant running queries. Improved the System Performance by **5** percent. Over **3000** internal employees used this tool and average queries are **100** times per day.

Projects

E-Banking-Portal Microservice | *SpringBoot, React, Kafka, kubernetes, Linux*

Feb.2023

- * Leveraging **Kafka's** distributed architecture and message queue features, we successfully achieved message passing, data caching, and high-concurrency processing in our project, effectively improving system scalability and performance.
- * Deployed a 4-node Kubernetes cluster to streamline the automated deployment, scaling, and monitoring of Kafka brokers.
- * Implemented virtualization and containerization technologies, such as **Docker** and **Kubernetes**, in **Linux** environments.
- * Handled a large-scale user base of 10,000 with an average of 1,000 transactions per user in the e-banking project.
- * Conducted comprehensive testing of each code segment using both **JUnit** and **integration tests**.

Logistics Management System | *SpringMVC, Spring, MongoDB, Maven*

Jan.2023

- * Created a logistics management system for managing users, customers, and orders.
- * Provides authentication and authorization to users using **Apache Shiro** based on their roles.
- * Resolved asynchronous interactive web pages utilizing **Ajax** technology, and stored data in **MongoDB**.
- * Deployed server-side to AWS EC2 via CI/CD through GitHub and can handle **300** queries per second verified by JMeter.

Online-Shopping System | *Java, SpringBoot, Hibernate, MySQL, React*

Apr.2022

- * Operated **Hibernate** to store persistence data into database tables and written HQL to access and update information.
- * Handled **HTTP requests** and responses by **Dispatcher Servlet** and **Java Jackson Library**.
- * Provided both **token-based authentication** and authorization via **Spring Security** to verify users' identification.
- * Completed 10 web pages utilizing **React**, **Ant Design Library**, **JSX**, and React Hooks such as **useState** to update stateful values and **UseEffect** to amend DOM tree in developing functions like checking item lists and shopping carts.