

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

Experience

AvanSight, Inc.

Full Stack Engineer

Jun.2023 – Present

Irvine, CA

- Developed **Large Language Model** on top of **Llama2** and leveraged **Langchain** to revolutionize data processing procedures, replacing manual tasks like data labeling and input standardization with automated solutions.
- Designed and implemented a novel approach using Large Language Model to efficiently process and comprehend lengthy documents, employing a **vector database** to store and retrieve information.
- Significantly enhanced operational efficiency, leading to a remarkable **30 percent** acceleration in result delivery speed.
- Designed dynamic and responsive flowchart using **Java SpringBoot** and **Typescript**, enhancing the user experience and visual representation of complex data workflows.
- Utilized **PostgreSQL** to store and manage data for the system, designing and implementing database schemas and tables to efficiently support data processing operations.

Amazon.com, Inc.

Software Engineer Intern

Sep.2022 – Dec.2022

New York, NY

- Built a data pipeline that fetch user data from **DynamoDB**, transformed it, and stored it in S3.
- Implemented **AWS Lambda** to update data, and **AWS Athena** and **Glue** to query and transform data.
- Monitored the performance of the data pipeline and scheduled periodic runs using **AWS CloudWatch**.
- The data export pipeline enhanced the system's data analysis capability by over **95 percent**, providing stakeholders with actionable insights and improving decision-making processes,the project is now utilized by over **10** teams.

Ridge Security Technology Inc.

Software Engineer 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.
- Introduced **load balancing** techniques to distribute incoming data traffic and prevent single points of failure.

Kedacom Technology Co., LTD

Database Engineer Intern

Jun.2019 – Aug.2019

Suzhou, Jiangsu

- Implemented database backup and recovery solutions, restore strategies to ensure **Oracle SQL** 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.

Projects

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

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 6-node **Kubernetes** cluster to streamline the 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.
- * Developed custom **Elasticsearch** indices to optimize data retrieval times and handle the high-volume data generated from the 10,000 users and their transactions.

Technical Skills

Skills: Java, C sharp, Python, HTML/React/JavaScript/Ajax, JSON/XML, TypeScript, SpringBoot, AWS, Redis, Kafka, Kubernetes, Load balancing, Hadoop

Tools: Junit, JMeter, MySQL, PostgreSQL, Oracle SQL, DynamoDB, MongoDB, Elasticsearch, Git/GitHub, RESTful, Apache Tomcat, MAMP