

Ruby Mu

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Academic Experience

Sep. 2016 - Jul. 2020

Undergraduate: Northeastern University

University Experience: During university, studied C language, participated in the training of the university ACM school team, deeply used the Linux system during university, liked to use VIM for code development, and mastered basic software development skills. In addition, studied machine learning during university, participated in the future competition of Kaggle, and achieved the best result of ranking in the top 1%, 20th place. During university, was passionate about the open-source cause, liked to browse Github, and submitted code to TiDB on Github and it was merged.

Work Experience

Jul. 2020 - Jan. 2022

Company: Shopee Information Technology Co., Ltd.

Position: Big Data Backend Development Engineer

Job Responsibilities:

1. Data Dashboard Backend Service: Provide seller data indicator services, conduct aggregate queries on data in the database, return the data to the front end, and realize the seller data dashboard through the cooperation of the front and back ends. This service is developed using the Golang language, with Gin as the HTTP protocol framework. By conducting aggregate queries on data obtained from different data sources such as HBase, TiDB, Elasticsearch, and RPC, present the store data indicators to the sellers to assist them in making business decisions.
2. Real-time Data Processing Service: The first version of the real-time data processing service was developed using the Go language, receiving data from Kafka, conducting ETL processing, and storing it in the database. The second version of the real-time data processing service was developed using the Flink framework and the Java language. By implementing Flink operators in Java, the ETL process was realized.
3. Data Migration Script: Used when the service is iteratively upgraded and the original database is not suitable for storing old information, and it is decided to change the original data storage location. Therefore, data migration is required. The migration script is developed using the Go language. By using channels to separate data reading and writing, different degrees of concurrent control can be carried out on the reading and writing ends, improving the data migration efficiency. The data sources involved include HBase, TiDB, and Elasticsearch.
4. Cache Service: Developed using the Go language, it is essentially a service that provides Codis cache externally, used for high-QPS tasks such as Flink tasks, to avoid Flink tasks directly querying the DB or relying on the upstream, crashing the upstream service, and causing an avalanche.

Apr. 2022 - Jul. 2024

Company: Atem Network

Position: Project Development Leader

Job Responsibilities:

1. AtemReview Project Development: AtemReview is a creator posting platform based on NFT, where users can post messages and permanently chain them, making them into NFTs. I am mainly responsible for the database model design of this project, using the Web3.js library to call specific contract functions, and integrating various wallets. Responsible for the development of the project's point system, used for Token airdrops. Build a real-time event processing system, used to permanently chain the user's post data and generate corresponding MetaData information, and convert the posts into NFTs of the ERC1155 protocol.
2. Saifu.ai Project Development: Saifu is an Ai tool that integrates Ai into Web3 wallet operations, converting text into Web3 operations performed by users, performing wallet operations in a textual manner, and simplifying the threshold of wallet operations. In this project, I am responsible for the database model design, backend architecture design, and development. In addition, responsible for integrating Web3.js components and some prompt development work in the GPT model.