

Dong Yunpeng

Apply for the position IT Developer

Education

Shanghai Jiao Tong University

B.E. in Software Engineering
3.93/4.3(4 semesters)
2021.09-Present
Expected Graduation
June 2024

Info

🌐Blog:// dongyunpeng.site
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Skills

Programming

Familiar
C++ • Java
Knowledge
C • Go • ~~PHP~~ • Javascript •
HTML • Assembly • Shell •
Python

Cloud Computing

Familiar
Micro Services • Docker •
Kubernetes
Knowledge
Spark • Kafka • Hadoop •
Prometheus

Projects

Remote Shuffle Service Owner

2023.03

- Using Spark-on-K8s-Operator to run spark-application
- Using Kafka to implement ETL scenarios.
- Using **Pyspark** to compute on streaming ETL scenarios
- Subscribing to messages from two Kafka topics using **Structured Streaming**
- Enabling Remote Shuffle Service for Spark on Kubernetes
- Set up another Remote Shuffle Service cluster on Hadoop and managed it using YARN
- Deploy and test the performance differences between different RSS implementations such as Zeus, shuttle and Celeborn

Flash Sale Platform Owner

2022.09

- Using Redis to optimize inventory queries and intercept failed flash sale requests in advance significantly improves the overall throughput of the system
- Adopting the spring cloud microservice architecture, splitting the service into four microservices and managing them using Eureka
- Adopting the floating layout to Supports both mobile and web terminals
- Integrate spring security with Zuul, intercept user requests, perform login validation, and **generate a token**. For other requests, validate the token. If the token is valid, the identity verification is successful and resource requests can be performed. All service is stateless
- **Using message queues to reduce peak write traffic to databases** in the flash sale scenario
- Adopting the client/server architecture, following the principles of **MVC pattern and component-based development**
- The unit tests are implemented using JUnit, which is included in Spring Boot, and the stress tests are performed using JMeter.

CHFS Owner

2022.12

- A basic file system with inode manager
- Using the **redo-undo log mechanism** to ensure the atomicity, consistency, durability, and isolation of transactions.
- Add 2PL to ensure that concurrent operations to the same file/directory from different chfsClients occur one at a time
- Design a **Raft library** to make this filesystem fault-tolerant and distributed
- As the log grows longer, Raft will compact the log via snapshotting
- Build a MapReduce framework on top of this Distributed Filesystem

Tiger Compiler Owner

2022.12

- A compiler for Tiger Language
- Implement the escape analysis and translation of tiger compiler
- Make compiler generate working code(IR->Assembly) that runs on x86-64 platform
- Implement register allocation by graph coloring algorithm

Open Source Contributions

[youngyangyang04 / leetcode-master](#) Contributor

Awards

2021-2022 Scholarship Huawei