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Huang Juntao

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Education

Shanghai Jiao Tong University

BE in Software Engineering
2022.09 - 2026.06(expected)

GPA: 3.90/4.30(Top 20%)

Links

Blog:// **creeper12356**
Github:// **creeper12356**

Skills

Programming

Over 5000 lines
C++ • Java
1000 - 5000 lines
C • Python
Less than 1000 lines
HTML • Javascript • MatLab

Tools

Git • Vim • Shell • GDB

Architecture

Familiar
Microservice • Serverless • SQL DB • Docker • RESTful • GraphQL •WebSocket
Knowledge
Kafka • Redis • Nginx •NoSQL DB • Neo4j •HDFS

Projects

UniGPT Collaborator

2024.04-2024.08

- An AI prompt community backend
- Calls LLM API, integrating prompt engineering, tool invocation, stateless cloud functions, RAG and other technologies
- Uses a microservice framework and is deployed to the cloud with Docker
- Builds elastic and scalable services with Kubernetes
- Implements load balancing and request forwarding with Nginx

Online Bookstore Owner

2024.02-2024.12

- An online bookstore backend
- Utilizes the Spring Boot framework to implement features such as user management, book management, and order management
- Employs MongoDB to manage book reviews
- Leverages Neo4j to manage book relationships and implement book recommendations
- Is deployed to the cloud using Docker
- Implements asynchronous processing and high throughput with Kafka message queue
- Uses Redis caching to enhance performance

CHFS Owner

2024.10-2024.12

- A distributed inode file system
- Developed in C++, it implements the basic functions of a file system
- Following the model of GFS, it realizes a distributed architecture of master, chunkserver, and client
- Uses RPC to implement communication between the master and the chunkserver

LSM-KV Owner

2024.04-2024.06

- A key-value separation storage system based on LSM-Tree
- Developed in C++, it implements interfaces such as get, put, delete, and scan
- It features a tiered architecture and key-value separation, resulting in better performance for write operations

Tiger Compiler Owner

2024.10-2025.01

- A Tiger language compiler based on the LLVM backend
- Supports compilation from the Tiger language to x86-64 assembly, and the compiled programs can run on Linux
- Implements basic language features such as variables, functions, arrays, structs, loops, and conditionals
- Modular design, including lexical analysis, syntax analysis, semantic analysis, IR generation, assembly code generation, and register allocation

AltCampusLife Owner

2024.10□□□□□□

- Electric Vehicle Charging Mobile App
- Developed using React Native, supporting both Android and iOS
- By decompiling existing apps and conducting interface testing, the backend API was reverse-engineered and integrated
- It has a certain user base within the campus

Awards

2023 Shanghai Jiao Tong University C Scholarship