JINTAO YE

■ keys961@hotmail.com · **८** (+86) 188-6715-0382 · **in** Jintao Ye

EDUCATION

Zhejiang University, Hangzhou, China

2019 – Present

Candidate for *M.Eng.* in Computer Technology, expected March 2022

Zhejiang University, Hangzhou, China

2015 - 2019

B.E. in Software Engineering

WORK EXPERIENCE

Zhejiang Bangsun Technology Co., Ltd

Aug. 2018 - Present

Intern Software Engineer

1. Cube Base: A Distributed KV Storage for Stream Cube (Dec. 2018 – Present)

- Implemented off-heap in-memory key-value storage, supporting secondary key-value for Stream Cube
- Implemented data sharding based on the node's hardware infomation
- Implemented cluster management with ZooKeeper
- Implemented automatic data migration after cluster reconfiguration
- Implemented pipelined, asynchronized and merged master-slave replication
- Implemented data dump, binlog and replication catch-up for data consistency and availability
- After integrated with Stream Cube:
 - Disable replication: throughput increased by 15.4% and 100.8% compared with Aerospike and Redis Cluster respectively
 - Enable replication: throughput increased by 3.7% and 66.1% compared with Aerospike and Redis Cluster respectively

2. Graph Cube: An Aggregated Graph Query Module on Stream Cube (Apr. 2019 – Jul. 2019)

- Defined a query language based on Cypher
- Implemented intermediate representation layer from the parsed information by ANTRL4
- Optimized query performance by enabling batch query on fan-out edges

3. Peng Cheng Laboratory: A Streaming System of Security Pattern Matching (Apr. 2019 – Jul. 2019)

- Implemented security pattern registration and management by Kafka and MySQL
- Implemented approximate deduplication for the incoming security event stream
- Implemented phishing, sprear-phishing, waterhole, botnet and DDoS pattern matching by Kafka Stream and Cube Base
- Supported at least 10,000 pattern matching tasks within 2 ms delay
- Supported horizontal scaling for parallel processing

Hangzhou Qunhe Infomation Technology Co., Ltd (Kujiale)

Mar. 2018 – Jun. 2018

Intern Backend Software Engineer

Responsible for the development and maintenance of the floor plan figure generation.

- Fixed logic and calculation bugs of figure rendering
- Implemented a new version of the floor plan figure
- Refactored the project with micro-task framework and decoupled the rendering service and the upper REST services
- Optimized the cache layer to solve the Full-GC problem

influx-proxy Sept. 2020 – Oct. 2020

Go Individual Project

A proxy for InfluxDB based on Eleme. influx-proxy. https://github.com/keys961/influx-proxy

- Removed the dependency of Redis
- Optimized the route strategy for query requests
- Supported non-measurement-crossing queries with SELECT/SHOW/DELETE clauses.

MiniSQL May 2017 – Jun. 2017

C++ Individual Project

A simple relational DBMS implementation. https://github.com/keys961/MiniSql

- Implemented buffer management, applied with FIFO page replacement
- Implemented B+ tree to build the index
- Implemented record and catalog management
- Supported simple SQL execution on a single table

SKILLS AND INTERESTS

• Programming Languages: Java > C/C++/Go/Rust

• Platform: Linux

• Frameworks: Spring Boot, Netty, RSocket, Redis, Kafka

• Development: Web, Disrtibuted System

• Interests: Distributed System, Stream Processing

MISCELLANEOUS

• Blog: http://keys961.github.io

• GitHub: https://github.com/keys961

• Languages: English - Fluent(CET-6), Mandarin - Native speaker