

HUARUI CHEN

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EDUCATION

Chongqing University of Technology, Bachelor's Degree

09/2016 – 06/2020

- Major: Software Engineering
- Key Courses: OS, Network, Database Algorithm, Compiler Principle.

WORK EXPERIENCE

ByteDance Inc., Beijing, China

04/2021 – now

(Supply Chain and Logistics) *Backend Development Engineer*

- Participate in the design of an abstract monitoring model, receive messages from different upstream data sources, convert them into configured events as triggers to start/end monitoring, find the corresponding timeout rules through events, and generate monitoring orders for the corresponding rules to perform monitoring. The monitoring list needs to be filled with data information, and the RPC interface needs to be called multiple times. In order to reduce multiple repeated requests, the result of building a memory cache request is stored in the context context; for infrequently changing rules and events, Timer is used to periodically obtain the cache from ByteSQL and store it in memory. , reduce query operations on DB.

Hupu Inc., Shanghai, China

07/2020 – 01/2021

(Product Development Group) *Backend Development Engineer*

- Participate in the reconstruction of the basketball schedule list, responsible for the transformation of the schedule data, as well as the design and implementation of the schedule list API connection.
- Reduce the amount of interface access through cache (local cache, Redis cache); use thread pool to synchronize asynchronously and synchronize game data in real time.

SKILLS

- **Programming Languages:** **multilingual** (not limited to any specific language), experienced in Golang/Java, comfortable with Rust/Python/C/C++.
- **Data Structures and Algorithms:** familiar with common data structures (Array, List, Stack, Queue, Map, Set, BinTree, BST), understand AVL, RBtree, B/B+ tree, skip list, familiar with commonly used sorting algorithms (Bubble, Insert, Select, Merge, QuickSort, HeapSort, Bucket, Count).
- **Distributed System/Database:** Experience in tuning and deployment of TiDB, know the basic use of K8s and tidb-operator. taken course MIT 6.824 and PingCAP's Talent Plan, understand the basic theory of distributed system/database, including but not limited to algorithms such as Raft and Percolator.
- **Developing Tool:** familiar with Linux-based programming, have experience with team tools like Git, Jira, etc.
- **Others:** have experience using MySQL/Redis/RocketMQ/Elasticsearch, understand Docker and Docker orchestration concepts, have experience in developed logistics performance monitoring to support multi-dimensional query, used Elasticsearch to solve multi-condition query problems.

MISCELLANEOUS

- **Interests:** computer systems and architecture, parallel computing, databases and cloud applications.
- **Open-source Contributions:** contributed to @rust-analyzer, @rust-osdev, @jupyter, @pingcap, etc.
- **Passionate about sharing:** I have been writing on my personal blog for years and have accumulated several high-quality technical sharing articles.
- **Language Level:** Ability to conduct daily conversation and essay reading, experience in English presentation.
- **Personal tags:** self-driven, quick learner, earnest curiosity, open source lover.