

Jianshun Zhang

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Education

Huazhong University of Science and Technology

2019/07 – Now

Ph.D of Science in Computer Science

Wuhan, China

- Research Interests: **Key-Value Stores**, File Systems, Storage System.

University of Electronic Science and Technology of China

2015/09 – 2019/06

B. Eng in Software Engineering

Chengdu, China

- Focus: Micro-services, Distributed System, Web Developemnt (Java)

Work Experience

ByteDance

2023/06 – Now

Storage System R&D Intern, TerarkDB Team

Beijing, China

SAP Labs China

2018/01 – 2019/06

Java Developer Intern, Cloud Service Center

Chengdu, China

Publications

- Chao Dong, Fang Wang, Yuxin Yang, Mengya Lei, **Jianshun Zhang** and Dan Feng. “Low-Latency and Scalable Full-path Indexing Metadata Service for Distributed File Systems” is Accepted by 2023 IEEE 40th International Conference on Computer Design (**ICCD, CCF-B, Best Paper Award**), 2023.
- Hang An, Fang Wang, Dan Feng, Xiaomin Zou, Zefeng Liu, **Jianshun Zhang**. “Marlin: A Concurrent and Write-Optimized B+-tree Index on Disaggregated Memory” is Accepted by Proceedings of the 52nd International Conference on Parallel Processing (**ICPP, CCF-B**), 2023.
- **Jianshun Zhang**, Fang Wang, Chao Dong. “HaLSM: A Hotspot-aware LSM-tree based Key-Value Storage Engine” is Accepted by 2022 IEEE 40th International Conference on Computer Design (**ICCD, CCF-B**), 2022.

Projects

TerarkDB (Key-Value-separated LSM-tree)

2023/03 – 2023/10

- I/O efficient Garbage Collection scheme
- Disaggregated Storage for LSM-tree

Hotspot-aware LSM-tree based Key-Value Storage Engine

2021/09 – 2022/07

- Hotspot identification and hotness calculation
- Fine-grained read/write hybrid caching
- Hotspot-aware compaction strategy

Distributed Block Device and Cache

2019/07 – 2021/07

- Storage protocol conversion (block device semantics to object storage semantics)
- Block device server implementation
- Ceph hierarchical cache acceleration

Entitlement Management System

2018/01 – 2019/06

- Microservices development based on Spring Cloud and SAP HANA

Skills

- **Programming Languages:** C++, Java, Python, Shell
- **Tech Skills:** Key-Value Storage Systems (LSM-tree based, such as LevelDB and RocksDB), File Systems

Awards

- ZhiXing Excellent Postgraduate Scholarship
- National Inspiration Scholarship