

ZHIHAO ZHANG

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ABOUT ME

I am now a Ph.D. student in the Department of Computer Science at the School of Informatics, Xiamen University. My research interests include operating and storage systems, with current research focusing on cloud storage and Linux block I/O.

EDUCATION

Xiamen University (XMU), Fujian, China 2021–Present

Ph.D. Student in Computer Science and Technology

Xiamen University (XMU), Fujian, China 2018–2021

M.Sc. in Computer Science and Technology

Chongqing University of Technology (CQUT), Chongqing, China 2014–2018

B.Sc. in Communication Engineering

EXPERIENCES

Alibaba Group, Beijing, China 2022.12–Present

Research Intern in Alibaba Cloud Intelligence

PAPERS

1. CODELTA: Accelerating File Synchronization with Collaborative Delta Generation (First Author). Work In Progress. 2023.
2. DADI: Block-Level Image Service for The Cloud (Second Author). Work In Progress. 2023.
3. TonicDB: An Efficient RocksDB KV Store with DPU-assisted Auto-Tuning (Second Author). Work In Progress. 2023.
4. PAM Hashing: PM-friendly Array-Mapped Hashing with Improved Write and Resizing Efficiency (First Author). Work In Progress. 2023.
5. FP-iKnowFirst: An Efficient DPU-assisted Compaction for LSM-Tree-based Key-Value Stores. Jiahong Chen, Shengzhe Wang, Zhihao Zhang, Suzhen Wu and Bo Mao. In Proc. of the 34th IEEE International Conference on Application-specific Systems, Architectures and Processors (ASAP'23). 2023.
6. SimiEncode: A Similarity-based Encoding Scheme to Improve Performance and Lifetime of Non-Volatile Main Memory. Suzhen Wu, Jiapeng Wu, Zhirong Shen, Zhihao Zhang, Zuocheng Wang, and Bo Mao. In Proc. of the 39th IEEE International Conference on Computer Design (ICCD'21). October 24-27, 2021.

AWARDS

1. 2022 National Student Computer System Capability Competition, OS Design-OS Function Challenge Track, **First Class** (SwornDisk).
2. 2022 Fall NVIDIA DPU China Hackathon, **Second Class**.