

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. DADI: Block-Level Image Service for The Cloud. Huiba Li, Zhihao Zhang, Yifan Yuan, Rui Du, Kai Ma, Lanzheng Liu, Yiming Zhang, and Windsor Hsu. Under TOS Journal Review. 2023.
2. TonicDB: An Efficient RocksDB KV Store with DPU-assisted Auto-Tuning. Jiahong Chen, Zhihao Zhang, Shengzhe Wang, Suzhen Wu, Qiang Li, Bo Mao. Under Conference Review. 2023.
3. PAM Hashing: PM-friendly Array-Mapped Hashing with Improved Write and Resizing Efficiency. Zhihao Zhang, Suzhen Wu, Hong Jiang, Zhirong Shen, Bo Mao. Under Conference Review. 2023.
4. Diagnosing Distributed Routing Configurations Using Sequential Program Analysis. Rulan Yang, Xing Fang, Lizhao You, Qiao Xiang, Hanyang Shao, Gao Han, Ziyi Wang, Zhihao Zhang, Jiwu Shu. In Proc. of the 7th Asia-Pacific Workshop on Networking (APNet'23). 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**.