

JIACHENG SHEN

Ph.D Student, The Chinese University of Hong Kong
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RESEARCH INTERESTS

Distributed Systems and Cloud Computing

- Next-generation data center systems and architecture
- Resource disaggregation, Serverless computing

EDUCATION

The Chinese University of Hong Kong

Ph.D in Computer Science and Engineering

Hong Kong SAR, China
2020.08 – 2024.08 (Expected)

- ARISE Lab, Computer Science and Engineering Department
- Supervised by Prof. Michael R. Lyu (AAAS/ACM/IEEE fellow)

Fudan University

BSc. in Computer Science

Shanghai, China
2016.09 – 2020.06

- GPA: 3.78/4.0; Ranking: 1/155

WORKING EXPERIENCE

Huawei Cloud

Research Intern

Shenzhen, China
2021.09 – 2023.10

- Design fault-tolerance techniques for memory-disaggregated storage systems.
- Build a caching framework for disaggregated memory.
- Productionize a memory-disaggregated Redis service.

Fudan University

Research Assistant

Shanghai, China
2020.08 – 2021.08

- Mitigate cold-starts for FaaS platforms.

Microsoft

Software Development Intern

Shanghai, China
2019.10 – 2020.01

- Develop data analytics, visualization, and deployment tools for Dynamics365.

HONORS AND AWARDS

National Scholarship

Ministry of Education

2019

SOSP Student Scholarship

Association for Computing Machinery (ACM)

2023

FAST Student Grant

USENIX Association

2023

Huawei Cloud Rising Innovation Star Award

Huawei Cloud

2023

Scholarship for Outstanding Students

Fudan University

2017, 2018 and 2020

PROFESSIONAL SERVICES

Reviewer

<i>ICDCS</i>	2020
<i>ICSE, DSN, ISSRE</i>	2021
<i>CLOUD, FSE</i>	2022
<i>ISSRE, PRDC</i>	2023
<i>FSE</i>	2024

TEACHING EXPERIENCE

Teaching Assistant

	The Chinese University of Hong Kong
<i>CSCI 3100: Software Engineering</i>	2021
<i>CSCI 3100: Software Engineering (Lead TA)</i>	2022
<i>CSCI 3100: Software Engineering (Lead TA)</i>	2023

RECOMMENDERS

Michael R. Lyu

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The Chinese University of Hong Kong

Katinka Wolter

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Freie Universität Berlin

Haibo Chen

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Shanghai Jiao Tong University

PUBLICATIONS

1. [J Shen](#), P Zuo, X Luo, Y Su, J Gu, H Feng, Y Zhou, and M R Lyu. Ditto: An Elastic and Adaptive Memory-Disaggregated Caching System. In *SOSP 2023*.
2. [J Shen](#), P Zuo, X Luo, T Yang, Y Su, Y Zhou, and M R Lyu. FUSEE: A Fully Memory-Disaggregated Key-Value Store. In *FAST 2023*.
3. X Luo, P Zuo, [J Shen](#), J Gu, X Wang, M R Lyu, and Y Zhou. SMART: A High-Performance Adaptive Radix Tree for Disaggregated Memory. In *OSDI 2023*.
4. [J Shen](#), T Yang, Y Su, Y Zhou, and M R Lyu. Defuse: A Dependency-Guided Function Scheduler to Mitigate Cold Starts on FaaS Platforms. In *ICDCS 2021*.
5. [J Shen](#), P Zuo, B Che, Z Chen, X Zhang, S Goren, Z Xiang, P Chen, Y Miao, J Feng, and M R Lyu. Productionizing a Memory-Disaggregated Caching System. In *Submission*, 2023.
6. T Yang, [J Shen](#), Y Su, X Ren, Y Yang, and M R Lyu. Characterizing and Mitigating Anti-patterns of Alerts in Industrial Cloud Systems. In *DSN 2022*.
7. T Yang, [J Shen](#), Y Su, X Ling, Y Yang, and M R Lyu. AID: Efficient Prediction of Aggregated Intensity of Dependency in Large-scale Cloud Systems. In *ASE 2021*.
8. S Jiang, [J Shen](#), S Wu, Y Cai, Y Yu, and Y Zhou. Towards Usable Neural Comment Generation via Code-Comment Linkage Interpretation: Method and Empirical Study. *TSE 2023*.
9. T Yang, B Li, [J Shen](#), Y Su, Y Yang, and M R Lyu. Managing Service Dependency for Cloud Reliability: The Industrial Practice. In *ISSRE 2022 Workshops*.
10. T Yang, C Lee, [J Shen](#), Y Su, Y Yang, and M R Lyu. An Adaptive Resilience Testing Framework for Microservice Systems. In *arXiv preprint*, 2022.