

ZHU Zhouruixing (朱周睿星)

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EDUCATION

The Chinese University of Hong Kong, Shenzhen (CUHKSZ)

Shenzhen, China

M.Phil. – Computer and Information Engineering; Supervisor: Prof. Pinjia He

Aug 2022-Present

- **Research Interest:** Software Reliability, LLM4SE, AIOps, Log Analysis.
- **Highlighted Courses:** Stochastic Process, Data Analytics, Image Processing and Computer, Selected Topics in Cloud Computing.

Nanjing University of Aeronautics and Astronautics (NUAA)

Nanjing, China

Bachelor - Computer Science and Technology

Aug 2016-June 2020

- **Highlighted Courses:** Digital Image Processing, Formal Language and Automata Theory, Operating System, Database principle, Principle and Application of Software Engineering, Computer Network, Assembly Language.

PUBLICATIONS

- [1] **Z. Zhu**, C. Lee, X. Tang, P. He, "HeMiRCA: Fine-Grained Root Cause Analysis for Microservices with Heterogeneous Data Sources," in ACM Transactions on Software Engineering and Methodology, 2024, *Just Accept*, [CCF-A].
- [2] J. Xu*, **Z. Zhu***, F. Yu, Y. Wu, B. Wang, P. He, "InsLog: An All-in-One Logging Approach with Instruction Fine-tuning," in the International Conference on Automated Software Engineering, 2025, *Under Review*, [CCF-A].
- [3] C. Lee, **Z. Zhu**, T. Yang, Y. Su, P. He, and M. R. Lyu, "SPES: Towards Optimizing Performance-Resource Trade-Off for Serverless Functions," in Proceedings of IEEE 40th International Conference on Data Engineering 2024, [CCF-A].
- [4] J. Xu, Q. Fu, **Z. Zhu**, Y. Cheng, Z. Li, Y. Ma, P. He, "Hue: A User-Adaptive Parser for Hybrid Logs," in Proceedings of the ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, 2023: 413-424, [CCF-A].

(* Equal contribution)

EXPERIENCE

The Chinese University of Hong Kong, Shenzhen (CUHKSZ)

Shenzhen, China

Research Assistant

Aug 2022-Present

- **Microservice Root Cause Analysis:** Proposed a fine-grained root cause analysis framework for microservices, which leverages the potential relationship between service metrics and trace-based system anomaly degree to locate the root cause.
- **Hybrid Log Parser:** Proposed a log parser, which natively supports hybrid log parsing and has a human feedback integration mechanism that largely reduces unnecessary queries. Published a conference paper in ESEC/FSE'2023.
- **Logging Statement Generation:** Proposed an end-to-end logging statements generation framework based on instruction tuning paradigm of large language models (LLMs).
- **FaaS Provision Scheduler:** Proposed a differentiated method for runtime cold-start mitigation by optimizing serverless function provision.

Zhongxing Telecommunication Equipment Corporation (ZTE)

Nanjing, China

Software Testing Engineer & DevOps Engineer (Full-time)

Jul 2020-Jul 2022

- **Testing & Quality Assurance:** Led end-to-end testing activities, from requirements analysis to test case execution and defect tracking.

- **Infrastructure Management:** Established and maintained test environments and systems, ensuring seamless deployments.
- **Automation Expertise:** Designed and implemented an automated test framework, enhancing testing efficiency.
- **Continuous Integration:** Managed continuous integration processes to boost system reliability.

Huawei Technologies Co. Ltd.

Nanjing, China

Software Develop Engineer (Internship)

Jul 2019-Oct 2019

- **Embedded Systems Development:** Developed switch instructions using C language, contributing to the enhancement of system functionality.
- **Material Management Tool Creation:** Designed and implemented material management tools for efficient input of material information, real-time equipment utilization display, and proactive tracking of underutilized equipment.

HONORS AND AWARDS

- **Honors**
 - Outstanding Student Scholarship**, Nanjing University of Aeronautics and Astronautics 2019
 - Postgraduate Academic Scholarship**, Nanjing University of Aeronautics and Astronautics 2017-2019
- **Competitions Awards**
 - Network Security Competition (CTF) (Top 6/300)**, ZTE Corporation 2021
 - Top Ten Sports Star**, Nanjing University of Aeronautics and Astronautics 2019
 - AI Practice Competition (Third-prize)**, School of Computer Science & Technology (NUAA) 2018

SKILLS

Languages: English, Mandarin

Coding: Python (proficient), C++, SQL

Modeling: Deep learning, Machine Learning

SERVICES

- **2025**
 - External Reviewer* – 47th International Conference on Software Engineering (ICSE 2025)
- **2024**
 - External Reviewer* – 39th International Conference on Automated Software Engineering 2024 (ASE 2024)
 - External Reviewer* – 33rd International Symposium on Software Testing and Analysis (ISSTA 2024)
 - External Reviewer* – 46th International Conference on Software Engineering (ICSE 2024)
 - External Reviewer* – 33rd ACM International Conference on the Foundations of Software Engineering (FSE 2024)
- **2023**
 - External Reviewer* – 32nd ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2023)
 - External Reviewer* – 34th IEEE International Symposium on Software Reliability Engineering (ISSRE 2023)