# 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: AIOps, Log Analysis, Software Reliability.
- 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; GPA:3.2/5.0 (Rank top 30%)

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.

#### **EXPERIENCE**

### The Chinese University of Hong Kong, Shenzhen (CUHKSZ)

Shenzhen, China

Research Assistant

Aug 2022-Present

- 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: Proposes 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: Proposes an end-to end logging statements generation framework based on instruction tuning paradigm of large language models (LLMs).
- FaaS Provision Scheduler: Proposes 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

	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

# **PUBLICATIONS**

- [1] 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]**.
- [2] **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, 2023, Under Revision, [CCF-A].
- [3] **Z. Zhu**, J. Xu, F. Yu, Y. Wu, B. Wang, P. He, "InsLog: An All-in-One Logging Approach with Instruction Fine-tuning," in The International World Wide Web Conference, 2024, Under Review, [CCF-A].
- [4] C. Lee, T. Yang, **Z. Zhu**, Y. Su, P. He, and M. R. Lyu, "Spes: A differentiated scheduler for optimizing serverless function provision," in Proceedings of IEEE International Conference on Data Engineering, 2024, Under Review, [CCF-A].