

Boyin Tan

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Shenzhen
<https://shuaijiumei.github.io/scholar-page/>



EDUCATION

The Chinese University of Hong Kong (Shenzhen)

Artificial intelligence Master School of Data Science

Sep 2023 - Jun 2025

Shenzhen

Advisor: Pinjia He - Relevant Courses: Artificial Intelligence, Large Language Models, Advanced Computer Algorithms, Advanced Machine Learning, and others.

University of Electronic Science and Technology of China

Software Engineering Bachelor

Sep 2019 - Jun 2023

Chengdu

GPA: 3.43/4.0 Relevant Courses: Computer Organization, Computer Networks, Operating Systems, Software Engineering and Practice, Graphics and Animation, Databases, among others.

Honors and Awards: First Prize in the Sichuan Province of the China Computer Design Competition (2021), Second Prize in the Southwest Region of the College WeChat Mini Program Competition (2020, 2019).

RESEARCH EXPERIENCE

AutoLogging

Tencent-WeChat Pay

Sep 2024 - Present

Shenzhen

Design a Highly Reliable Log Code Generation Tool to Enhance Root Cause Localization for WeChat's Internal Logging Requirements

- Investigate common logging practices within WeChat, deriving heuristic rules from changes in log code to improve the performance of downstream tasks.
- Design an automatic log code generation tool based on LLMs, integrating static analysis techniques to enhance the tool's effectiveness. Additionally, injecting heuristic rules as supplementary knowledge into the large model to improve the performance of generated log code in downstream tasks.

Logging Benchmark

Submission to ISSTA'25: The ACM SIGSOFT International Symposium on Software Testing and Analysis

Oct 2023 - Present

Shenzhen

Currently, the end-to-end log code generation task lacks a publicly available high-quality dataset and reliable evaluation metrics. We selected high-quality code repositories managed by Apache on GitHub, extracted, deconstructed, and analyzed the log code within them. Additionally, we proposed a comprehensive set of evaluation metrics.

- We collected 40,000 high-quality data points from 10 well-known open-source repositories.
- Additionally, we designed 9 evaluation metrics to conduct a detailed assessment of existing logging tools.

PROFESSIONAL EXPERIENCE

Tencent-WeChat Technology Architecture Department

Test development intern Technical Architecture Department

Jun 2024 - Present

Guangzhou

- Conduct a clustering analysis of the large volume of daily log data generated by WeChat for root cause identification, and propose a highly reliable clustering solution.
- Conduct an in-depth study of WeChat's internal code logging scenarios. By combining WeChat's established logging heuristic rules with the requirements of business scenarios, design an automated logging tool through the analysis of usage information from the logging platform.

Ant Group-Alipay Experience Technology Department

Full stack development intern Experience Technology Department

Jan 2022 - Jul 2022

Shanghai

- Responsible for the maintenance and iteration of the internal open-source component platform, Haitu, including the development and maintenance of related npm packages for the Haitu dev environment simulation development kit.
- Participated in the requirements research, prototype design, and iterative development of related components for Ant Design (antd) v5.

Community and organizational experiences

Xing Sanhao Studio

General responsible person

Jan 2021 - Feb 2022

Chengdu

Xing Sanhao Studio is a collaborative studio established by the University of Electronic Science and Technology of China, Huachuang Investment Company, and the Sichuan Provincial Department of Education. The studio's current focus is on the integration of Artificial Intelligence and Education.

- As the overall leader of Xing Sanhao Studio, I coordinate the collaborative development among teams including front-end, back-end, UI, and product teams.
- Undertook outsourced projects, organized the recruitment of new members for the studio, and led weekly "Technical Exchange Meetings." Additionally, I conducted monthly performance assessments for studio members.

University of Electronic Science and Technology of China Software College Football Team

Captain

Sep 2020 - Feb 2022

Chengdu

- Led the team to win the University Cup (2021);
- Establish and organize the freshman team to participate in the school Freshman Cup and win third place;