

Juantao Zhong

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Google Scholar: <https://scholar.google.com/citations?user=64oGR1MAAAAJ>

Research Interests: Large Language Models for Security, Blockchain Security, Large Language Model Compliance

EDUCATION

Nanyang Technological University

Aug. 2023-Jun. 2024

Msc. in Blockchain Technology

GPA: 4.95/5.0 Awarded First Place in the Merit Award 2024

South China University of Technology (Project 985&211)

Sept. 2018-Jun. 2022

B.Eng. in Information Security

GPA: 3.63/4.0 Rank: 9/67

PUBLICATIONS

Equal contribution

[1] **Juantao Zhong**[#], Daoyuan Wu[#], Ye Liu, Maoyi Xie, Yang Liu, Yi Li, and Ning Liu. **Detecting Various DeFi Price Manipulations with LLM Reasoning**. *Proceedings of the 40th IEEE/ACM International Conference on Automated Software Engineering (ASE 2025)*. (CCF-A) [Paper](#) [Artifact](#)

[2] Yufan Chen[#], Daoyuan Wu[#], **Juantao Zhong**, Zicheng Zhang, Debin Gao, Shuai Wang, Yingjiu Li, Ning Liu, Jiachi Chen, and Rocky K. C. Chang. **Rethinking and Exploring String-Based Malware Family Classification in the Era of LLMs and RAG**. *arXiv preprint arXiv:2507.04055*. (Under review as a conference paper at ICDE 2026) [Paper](#) [Artifact](#)

[3] Xu Yang[#], **Juantao Zhong**[#], Daoyuan Wu, Xiao Yi, Jimmy Lee, and Tan Lee. **Effective Online Exam Proctoring by Combining Lightweight Face Detection and Deep Recognition**. *arXiv preprint arXiv:2206.13356*. (Under review as a conference paper at PerCom 2026) [Paper](#) [Artifact](#)

RESEARCH

Finite Monkey Engine: Universal and Effective Logic Vulnerability Analysis with Large Language Models

Dec. 2024-Now

Research Area: Large Language Models for Software Security

Advisor: Prof. Daoyuan Wu

- An advanced vulnerability mining and validating framework powered by LLMs.
- A prompt-driven engine leverages the hallucination of LLMs to uncover logic bugs in programs.
- The detection is conducted based on the granularity of business flows in the input program, and the validation is not only based on the vulnerable code, but also its corresponding context.
- We have used the tool to discover vulnerabilities in more than 40 projects, across 3 programming languages.

TECHNICAL SKILLS

Languages: English (IELTS 7.0); Mandarin (Native)

Developer tools:

- *Programming Languages:* Python, C++, Solidity, Rust
- *Machine Learning & AI:* PyTorch, Transformers, Neural Network (ResNet), Large Language Models (LLMs), Facebook AI Similarity Search (FAISS)
- *Cybersecurity:* Kali, Burp Suite, Wireshark, CodeQL, Slither

SERVICES

Conference Sub-reviewer: ICLR 2026, AAAI 2026, NDSS 2026, USENIX Security 2026, NDSS 2025, USENIX Security 2025, CCS 2025, ISSTA 2025, and ICSE 2025

Journal Sub-reviewer: PNAS, PNAS Nexus, IEEE Transactions on Information Forensics and Security (TIFS), IEEE Transactions on Dependable and Secure Computing (TDSC), and Transactions on Pattern Analysis and Machine Intelligence (TPAMI)