JIAHAO LUO

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Blog(Chinese)⋄ https://blog-blockchain.xyz

EDUCATION

University of Electronic Science and Technology of China   *September 2020 – June 2024*
B.S. in Cybersecurity, School of Computer Science and Engineering
Overall GPA: 3.96/4.00(91.1/100)

EXPERIENCE

The Hong Kong Polytechnic University   July 2023 - May 2024
Research Administrative Assistant   *Hung Hom, Hong Kong*

· Supervised by Prof. Daniel Xiapu Luo, I underwent rigorous academic training and completed independent research on Ethereum network and protocol variance measurement.
· Contributed to the network component of the IDS project, "Machine Learning Empowered Detection of Illicit Smart Contracts and Transactions," funded by the Ethereum Foundation.
· Reviewed research artifacts and papers.

METATRUST LABS PTE. LTD   October 2022 - April 2023
Web3 Security Engineer   *Remote Position for a Singapore-based Company*

· Supervised by Prof. Yang Liu of NTU, I developed and designed static analysis tools from scratch.
· Tracked blockchain hacks and created detector rules for DeFi and cross-chain smart contracts.

Training Program of Innovation and Entrepreneurship for Undergraduates   January 2022 - November 2022
Student Project Leader   *UESTC, Chengdu, China*

· Supervised by Prof. Ting Chen, I studied the go-ethereum source code and EVM bytecode decompilation methods, providing instruction on txpool and trace call graph.
· Authored a geth source code analysis tutorial, which received 330 stars on GitHub and over 1700 followers on Zhihu.

PUBLICATION

Chain and Client Diversity in Ethereum: Analyzing P2P Network Dynamics and Protocol Variance   Under review
ACM Internet Measurement Conference (IMC) 2024

· Independently developed the idea, methodology, system design, conducted experiments, and wrote the paper, with reviews by postdocs and senior PhD candidates.

HONORS & AWARDS

Outstanding Winner & Student Award for Mathematical Achievement by AMS   2023
Consortium for Mathematics and its Applications, American Mathematical Society

· Awarded in the MCM&ICM; among the top 1% (7 of 11296 teams from 21 countries/regions).

National Encouragement Scholarship   2021-2023

TECHNICAL STRENGTHS

Programming Languages	Solidity, C++, Golang, Python, Haskell
Blockchain	Ethereum protocol stack, Slither
Interests	Zero-knowledge proofs for Blockchain, Ethereum protocol, program analysis