# **ZHEYUAN HE**



## PERSONAL DETAILS

ecjgvmhc@gmail.com Date of birth: May 23, 1995 Website: hzysvilla.github.io

LinkedIn: linkedin.com/in/zheyuan-he-7a1207338

Position: University of Electronic Science and Technology of China (UESTC) | PhD student

Google scholar: scholar.google.com/citations?user=O\_vixKoAAAAJ

#### INTRODUCATION

Zheyuan He is currently pursuing his PhD degree at the School of Computer Science and Engineering, University of Electronic Science and Technology of China, under the supervision of Prof. Xiaosong Zhang. Concurrently, he is undertaking an exchange program at the lab of Martin Monperrus. His current research interests include the security of blockchain and client diversity.

### **EDUCATION**

PhD Candidate   Cyberspace Security	2022 -	- Present
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University of Electronic Science and Technology of China (UESTC)

#### Master Degree | Cyberspace Security 2019 - 2022

University of Electronic Science and Technology of China (UESTC)

#### Bachelor Degree | Telecommunications Engineering 2013 - 2017

Beijing Electronic Science and technology Institute (BESTI)

### INTERNSHIP

#### Software Security Engineer 2021 - 2022

Ant Group, Chengdu

#### Research engineer Sep 2024 - Sep 2025

KTH/Prof. Martin Monperrus, Stockholm

### RESEARCH INTERESTS

Blockchain Security, Smart Contract Security, Software Engineering

### **PUBLICATIONS**

- <u>Z. He</u>, Z. Li, J. Luo, F. Luo, J. Duan, J. Li, S. Song, X. Luo, T. Chen, X. Zhang, "Auspex: Unveiling Inconsistency Bugs of Transaction Fee Mechanism in Blockchain." *USENIX Security* (Usenix sec), 2025.
- Z. He, Z. Li, A. Qiao, J. Li, F. Luo, S. Yang, G. Deing, S. Song, X. Zhang, T. Chen, X. Luo, "Maat: Analyzing and

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- Optimizing Overcharge on Blockchain Storage." *USENIX Conference on File and Storage Technologies* ( Usenix FAST), 2025. (Matt has hatched EIP-7863).
- Z Li, X Peng, Z. He, X Luo, T Chen, "fAmulet: Finding Finalization Failure Bugs in Polygon zkRollup." ACM Conference on Computer and Communications Security (CCS), 2024.
- Z. He, Z. Li, A. Qiao, X. Luo, X. Zhang, T. Chen, S. Song, D. Liu, W. Niu, "NURGLE: Exacerbating Resource Consumption in Blockchain State Storage via MPT Manipulation," *IEEE Symposium on Security and Privacy* (S&P), 2024.
- Z. Li, J. Li, <u>Z. He</u>, X. Luo, T. Wang, X. Ni, W. Yang, X. Chen, T. Chen, "Demystifying DeFi MEV Activities in Flashbots Bundle," *ACM Conference on Computer and Communications Security* (CCS), 2023.
- Feng Luo, Ruijie Luo, Ting Chen, Ao Qiao, <u>Zheyuan He</u>, Shuwei Song, Yu Jiang, Sixing Li, "SCVHunter: Smart Contract Vulnerability Detection Based on Heterogeneous Graph Attention Network," *The International Conference on Software Engineering* (ICSE), 2023.
- <u>Zheyuan He</u>, Shuwei Song, Yang Bai, Xiapu Luo, Ting Chen, Wensheng Zhang, Peng He, Hongwei Li, Xiaodong Lin, Xiaosong Zhang, "TokenAware: Accurate and efficient bookkeeping recognition for token smart contracts," *ACM Transactions on Software Engineering and Methodology* (TOSEM), 2023.
- Z. He, Z. Liao, F. Luo, D. Liu, T. Chen, Z. Li. "TokenCat: Detect Flaw of Authentication on ERC20 Tokens", *IEEE International Conference on Communications* (ICC), 2022.

#### ACADEMIC SERVICES

The Reviewer of IEEE TDSC (*IEEE Transactions on Dependable and Secure Computing*), CCS Workshop (*The ACM Conference on Computer and Communications Security*), and BCRA (Blockchain: Research and Applications).