# Zhechang Zhang

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## Education

	The Pennsylvania State University Ph.D. Student in Informatics; GPA: 3.97/4.00 Research Area: System Security	Pennsylvania, USA Aug 2023 - Present
	Advisor: Hong Hu	
•	Huazhong University of Science and Technology Master of Engineering in Cyber Security; GPA: 3.77/4.00 (85.95/100) Thesis: Research on Vulnerability Discovery in Deep Packet Inspection Systems	Wuhan, China Sept 2020 - June 2023
	Advisor: Deqing Zou and Bin Yuan	
•	Huazhong University of Science and Technology Bachelor of Engineering in Information Security; GPA: 3.95/4.00 (90.7/100 - Rank: 1 <sup>st</sup> /78)	Wuhan, China Sept 2016 - June 2020

RESEARCH INTEREST
Software Security, System Security and Fuzzing

Thesis: Fuzzing for Signature-based Network Intrusion Detection Systems

## **Refereed Conference Proceedings**

- 1 Shuangpeng Bai, Zhechang Zhang, and Hong Hu. CountDown: Refcount-guided Fuzzing for Exposing Temporal Memory Errors in Linux Kernel. In Proceedings of the 31<sup>st</sup> ACM Conference on Computer and Communications Security (CCS'24), Salt Lake City, UT, USA, October 2024.
- 2 Hengkai Ye, Song Liu, **Zhechang Zhang**, and Hong Hu. VIPER: Spotting Syscall-Guard Variables for Data-Only Attacks. In *Proceedings of the* 32<sup>nd</sup> USENIX Security Symposium (USENIX'23), Anaheim, CA, USA, August 2023. [Link]
- 3 Zhechang Zhang, Bin Yuan, Kehan Yang, Deqing Zou, and Hai Jin. StateDiver: Testing Deep Packet Inspection Systems with State-Discrepancy Guidance. In Proceedings of the 38<sup>th</sup> Annual Computer Security Applications Conference (ACSAC'22), Austin, TX, USA, December 2022. [Link]

## INDUSTRIAL CONFERENCE

1 Hengkai Ye, Song Liu, **Zhechang Zhang**, and Hong Hu. One Flip is All It Takes. In *Black Hat Asia Briefings*, Singapore, April 2024. [Link]

### HONORS AND AWARDS

- 2023, 2020 Outstanding Graduates, Huazhong University of Science and Technology
- 2022, 2018 National Scholarship, China Ministry of Education (0.1%)
- 2022 Champion in the 17<sup>th</sup> Challenge Cup Special Contest, China Ministry of Education (Rank 1/32)
- 2018 Outstanding Student, Huazhong University of Science and Technology (1%)

## COMMUNITY SERVICE

• External Reviewer	
USENIX Security Symposium (USENIX Security)	[2025]
Network and Distributed System Security Symposium (NDSS)	[2024, 2025]
ACM Conference on Computer and Communications Security (CCS)	[2024]
IEEE Transactions on Dependable and Secure Computing (TDSC)	[2023]
• Teaching Assistant	
Operating System, HUST	[Fall 2019]
CVE DISCOVERED	