

# Zhechang Zhang

Ph.D. Student  
College of Information Sciences and Technology  
The Pennsylvania State University

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## EDUCATION

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

## RESEARCH INTEREST

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Software Security, System Security and Fuzzing

## REFEREED CONFERENCE PROCEEDINGS

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- 1 Zhechang Zhang, Hengkai Ye, Song Liu and Hong Hu. SACK: Systematic Generation of Function Substitution Attacks Against Control-Flow Integrity. In *Proceedings of the 33<sup>rd</sup> Annual Network and Distributed System Security Symposium (NDSS'26)*, San Diego, CA, USA, February 2026.
- 2 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. [[Link](#)]
- 3 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. [[Link](#)]
- 4 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

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- 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

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- **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

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- External Reviewer

USENIX Security Symposium (USENIX Security)	[2025, 2026]
Network and Distributed System Security Symposium (NDSS)	[2024, 2025, 2026]
ACM Conference on Computer and Communications Security (CCS)	[2024, 2025]
International Conference on Applied Cryptography and Network Security (ACNS)	[2026]
IEEE Transactions on Dependable and Secure Computing (TDSC)	[2023]

- Teaching Assistant

Operating System, HUST	[Fall 2019]
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## CVE DISCOVERED

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CVE-2021-45098