HONGBO WEN'S CV

PERSONAL INFORMATION

Name: Hongbo Wen
Gender: Male
Date of Birth: Feb 06, 1997
Place of Birth: Guiyang, Guizhou, China
Mobile Phone: +1 (805) 837-9004
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RESEARCH INTERESTS

As a researcher dedicated to enhancing the reliability and stability of complex software systems, particularly within the blockchain domain, I have worked on various critical aspects of blockchain software stacks. My contributions include developing the first static analysis tool for verifying zero-knowledge proofs [**USENIX Security '24**], creating the first solver for complex financial models in decentralized finance protocols [**CCS '24**], and advancing the trustless execution layer for blockchain protocols [**IACR '24**].

EDUCATION

University of California, Santa Barbara, CA, USA 09/2022 - Now
Ph.D. student in Computer Science
GPA 4.0/4.0

Tsinghua University, Beijing, China 08/2015 - 06/2020
Bachelor of Architecture
GPA 3.4/4.0

EXPERIENCE

Veridise Inc. 03/2022 - 08/2022
Research & Development Engineer

Megvii Inc. 07/2020 - 05/2021
Research & Development Engineer

PUBLICATIONS

Stateless and Verifiable Execution Layer for Meta-Protocols on Bitcoin [IACR '24]
Hongbo Wen, Hanzhi Liu, Shuyang Tang, Tianyue Li, Shuhan Cao, Domo, Yanju Chen, Yu Feng
Cryptology ePrint Archive, 2024

Practical Security Analysis of Zero-Knowledge Proof Circuits [USENIX SEC'24]
Hongbo Wen, Jon Stephens, Yanju Chen, Kostas Ferles, Shankara Pailoor, Kyle Charbonnet, Isil Dillig, Yu Feng
Proceedings of the 33rd USENIX Security Symposium (USENIX Security), 2024

FORAY: Towards Effective Attack Synthesis against Deep Logical Vulnerabilities in DeFi Protocols [CCS'24]
Hongbo Wen, Hanzhi Liu, Jiaxin Song, Yanju Chen, Wenbo Guo, Yu Feng
Proceedings of the 2024 ACM SIGSAC Conference on Computer and Communications Security (CCS), 2024

HONORS & AWARDS

Ethereum Foundation Academic Grants Round 2024 06/2024
Yu Feng, Hanzhi Liu, Hongbo Wen
Topic: Sentinel: Adaptive Counter-Attack Synthesis for Mitigating Onchain Exploits

Ethereum Foundation Academic Grants Round 2023 06/2023
Yu Feng, Yanju Chen, Hongbo Wen
Topic: Financial Model-Driven Attack Synthesis for DeFi

UCSB Academic Excellence Fellowship 09/2022

TEACHING ASSISTANTS

University of California, Santa Barbara
CS162, Programming Languages Winter 2023
CS162, Programming Languages Winter 2024

TALKS

Practical Security Analysis of Zero-Knowledge Proof Circuits 08/2024
USENIX Security '24 Philadelphia, PA, USA

Modular Indexer Fully User-Verified Execution Layer for Meta-Protocols 02/2024
ETH Denver Denver, CO, USA

DeFi Security Pattern 11/2023
BuildETH Patterns San Francisco, CA, USA