Ahod Alghuried

PhD Candidate
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Education

PH.D., Computer Science, University of Central Florida, Orlando, FL, USA (2021 – Current)
Advisor: Prof. David Mohaisen. Topic: Blockchain Security and Privacy
M.SC., Computer Security and Forensic, Technological University Dublin, Dublin, Ireland (2015-2017)
B.SC., Computer Science, University of Tabuk, Tabuk, Saudi Arabia (2009-2013)

Research Interests

My research lies at the intersection of machine learning and blockchain security. My work encompasses three main thrusts: 1) principled research into adversarial machine learning techniques and their implications for blockchain security, ensuring properties such as privacy, security, and resilience; 2) developing robust detection mechanisms for fraudulent activities in blockchain networks by integrating advanced machine learning models; and 3) conducting systematic attack surface analysis to understand and mitigate potential abuses of blockchain systems.

Professional Experience

2024–2024	**Grader for CAP 5150**, University of Central Florida
2022–2023	**Teaching Assistant**, University of Central Florida
2019 – Current	**Lecturer**, Prince Sattam Bin Abdulaziz University
2018 – 2019	**Lecturer**, Al-Ghad International Health Sciences Colleges

Technical Publications And Manuscripts

1. Ahod Alghuried, Mohammed Alkinoon, Manar Mohaisen, An Wang, Cliff C. Zou, and David Mohaisen,"Blockchain Security and Privacy Examined: Threats, Challenges, Applications, and Tools", The ACM Distributed Ledger Technologies: Research and Practice, **ACM DLT**, 2024 (accepted).

2. Abdulaziz Alghamdi, Ali Alkinoon, Ahod Alghuried, David Mohaisen, "xr-droid: A Benchmark Dataset for AR/VR and Security Applications", IEEE Transactions on Dependable and Secure Computing, **IEEE TDSC**, 2024 (accepted).

3. Ahod Alghuried, and David Mohaisen,"Simple Perturbations Subvert Ethereum Phishing Transactions Detection: An Empirical Analysis", In Proceedings of the 25th International Conference, **WISA** 2024, Jeju Island, South Korea, August 22-24, 2024.

4. Hattan Althebeiti, Ran Gedawy, Ahod Alghuried, Daehun Nyang, and David Mohaisen, "Defending AirType Against Inference Attacks Using 3D In-Air Keyboard Layouts: Design and Evaluation". In Proceedings of the 24th International Conference, **WISA** 2023, Jeju Island, South Korea, August 23-25, 2023.

5. Ahod Alghuried, Ali Alkinoon, Abdulaziz Alghamdi, and David Mohaisen,"Simple Tricks, Big Threats: How Simple Perturbations Evade ML-based Ethereum Phishing Detection". In submission to Institution of Engineering and Technology, **IET**, 2025

6. Ahod Alghuried, Abdulaziz Alghamdi, Ali Alkinoon, Soohyeon Choi and David Mohaisen, "Fishing for Phishers: Learning-Based Phishing Detection in Ethereum Transactions". In submission to IEEE International Conference on Distributed Computing Systems, **IEEE ICDCS 2025**, Glasgow, Scotland, July 20 - July 23, 2025.

7. Ali Alkinoon, Ahod Alghuried, Abdulaziz Alghamdi, Soohyeon Choi and David Mohaisen, "Pandora's Box Reopened: New Insights into Android Permissions". In submission to IEEE International Conference on Distributed Computing Systems, **IEEE ICDCS 2025**, Glasgow, Scotland, July 20 - July 23, 2025.

8. Soohyeon Choi, Ahod Alghuried, Ali Alkinoon, Abdulaziz Alghamdi and David Mohaisen, "On Attributing ChatGPT-Transformed Synthetic Code". In submission to IEEE International Conference on Distributed Computing Systems, **IEEE ICDCS 2025**, Glasgow, Scotland, July 20 - July 23, 2025.

9. Ali Alkinoon, Abdulaziz Alghamdi, Ahod Alghuried and David Mohaisen, "Troid: Temporal and Cross-Sectional Android Dataset and Its Security Applications".In submission to IEEE Transactions on Dependable and Secure Computing, **IEEE TDSC**, 2025.

10. Abdulaziz Alghamdi, Ali Alkinoon, Ahod Alghuried, Soohyeon Choi and David Mohaisen, "Unified API Call-based Detection of Android and IoT Malware"(To be submitted).

11. Ahod Alghuried, and David Mohaisen, "Phishing in Wonderland: A Systematic Evaluation of the Learning-Based Ethereum Phishing Transactions Detection and Pitfalls". To be submitted to IEEE Security and Privacy Symposium, **IEEE S&P**, 2025.

    - Rejected from NDSS 2025 with weak split scores (2x weak accept/2x weak reject).

Public Presentations

1. "Simple Perturbations Subvert Ethereum Phishing Transactions Detection: An Empirical Analysis", The 25th International Conference, **WISA** 2024, Jeju Island, South Korea, August 22-24, 2024 (virtual presentation).

Skills

1. Python, Latex, Windows, and Linux.
2. Blockchain, Security Analysis, Malware Analysis, Machine Learning, Adversarial Machine Learning.

References

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