Amjad Saleem Rana
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Summary

Passionate cybersecurity researcher and analyst with practical experience in penetration testing and web/mobile application security. Holder of an MS in Information Security with a strong academic and research foundation. Published in Nature Scientific Reports on adversarial attacks in Android malware detection. Committed to fostering student learning and contributing to the academic community through innovative teaching and real-world cybersecurity practices.

Education

MS in Information Security (MSIS) — 2021–2024
Bahria University, Islamabad
Thesis: A Framework for Generating Evasive Adversarial Attacks Against Android Malware Defense

Master of Information Technology (MIT) — 2017–2019
Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi

Research Publication

GEAAD: Generating Evasive Adversarial Attacks against Android Malware Defense
Scientific Reports (Nature), Volume 15, Article 11867, April 2025
https://www.nature.com/articles/s41598-025-96392-x

This research introduces a cutting-edge framework to generate evasive adversarial attacks that bypass Android malware detection models while preserving functionality.

Research Interests
Adversarial Machine Learning, Android Malware, Penetration Testing, Security Automation

Certifications & Technical Trainings

Ethical Hacking – 3 Weeks Training – Bahria University Islamabad
Understanding Research Methods – Sep 2024 – University of London & SOAS University of London
AI for Everyone – Sep 2024 – DeepLearning.AI via Coursera
E-Commerce – 3 Months Training – Punjab Information Technology Board

Creative Designing – 400 Hours – Punjab Board of Technical Education, Lahore
Fiber Optics – 460 Hours – Punjab Board of Technical Education, Lahore

Professional Experience

VAPT Analyst – Information Security Department
MTBC CareCloud (Medical Billing Company) – Nov 2024 – Present
- Conduct web application security assessments and penetration testing using Burp Suite Professional, OWASP ZAP, Nikto, WPScan, Hydra, SQLmap, and Kali Linux.
- Perform APK penetration testing using MobSF (Mobile Security Framework).
- Decompile APKs and analyze source code via JADX and APKTool.
- Provide security reports with actionable remediation guidance.
- Ensure HIPAA compliance for sensitive healthcare data.
- Collaborate with developers to implement cybersecurity best practices.

Information Security Analyst (Internship)
Cyber Reconnaissance and Combat Lab (CRC), Bahria University – Jul 2022 – Jan 2023
- Used Nmap for network scanning, OS detection, and service enumeration.
- Utilized Metasploit for vulnerability exploitation and post-exploitation.
- Conducted vulnerability assessments with Nessus.
- Employed Burp Suite for intercepting traffic and discovering web app vulnerabilities.
- Applied Hydra for password brute-force attacks.

Technical Skills

Tools: Burp Suite, OWASP ZAP, SQLmap, MobSF, Nikto, Hydra, DirBuster, Metasploit, Nessus
Operating Systems: Kali Linux, Windows
Languages (Spoken): Urdu, English, Punjabi, Saraiki

Hobbies & Interests

Reading (History, Religion, Philosophy)
Playing Cricket, Football, Basketball