

Muhammad Shahmir Ahmed Siddiqui

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EDUCATION

FAST NUCES

BACHELORS IN Cybersecurity
June 2025 | Karachi, Pakistan
Bronze Medallist, Spring 2022

COURSEWORK

UNDERGRADUATE

- Computer Architecture and Assembly Language
- Operating Systems
- Digital Forensics
- Computer Networks
- Information Security
- Ethical Hacking
- Fundamentals of Malware Analysis
- Secure Software Design

SKILLS

EXPERIENCE

Operating Systems
Linux • Windows

Tools

Burpsuite • Nmap • Wireshark •
Metasploit • Ghidra • Nikto • IDA •
Volatility • FTK Imager • Hashcat

Languages and frameworks

C/C++ • Python • JavaScript •
Assembly x86 • PHP • HTML
• CSS • React • SQL • Shell

FAMILIAR

Qradar • Jenkins • Apache Jmeter
• Docker

EXPERIENCE

Trillium Information Security Systems | Penetration Testing INTERN

June 2024 - August 2024 | Karachi, Pakistan, Hybrid

- Conducted Vulnerability Assessment on 3 mobile apps including a Kotlin based baking app, using tools like ADB and MOBSF in line with the OWASP Android framework.
- Conducted Penetration tests on 2 web applications made with PHP and Node.Js

Thincscorp | Network Security Intern

July 2023 - September 2023 | Dubai, UAE, Remote

- Installed and Configured QRADAR SIEM to centralize and monitor security event logs
- Created Risk Registers to assess and prioritize threats effectively
- Conducted static and dynamic malware analysis on an email-based malware sample to uncover its working and identify its malware family.

PROJECTS

Machine Learning for Misbehavior Detection in VANETs |

FINAL YEAR PROJECT (ONGOING)

September 2024 - Present

Developed a machine learning model using Random Forest to detect False Data Injection attacks in Vehicular Ad-Hoc Networks, achieving 98% accuracy on Kaggle's Veremi Extension FDI Dataset through extensive feature engineering and class balancing techniques like SMOTE.

Bitcoin Clipper Malware | [GITHUB LINK](#) | Fundamentals of Malware Analysis PROJECT

Developed a sophisticated Bitcoin Clipper Malware using C++ and Windows API, focusing on clipboard manipulation to redirect cryptocurrency transactions to an attacker-controlled wallet via monitoring and altering of clipboard contents. Engineered Malware functionalities like persistence via Windows Registry and real time validation of wallet addresses, enhancing understanding of how malwares work and the persistence techniques they use.

SQL Injection Prevention in a Login Page | [GITHUB LINK](#)

Implemented SQL Injection Prevention in a login page made using HTML, CSS and PHP. Security measure included parameterized queries, input validation, and query time limits to mitigate SQLi vulnerabilities effectively.

Domain Scanner | [GITHUB LINK](#)

Developed an OSINT tool using python to analyse domains by retrieving WHOIS information, DNS records, SSL Certificates, HTTP headers. The tool can also perform open port scans and test for DNS Zone Transfers.

Achievements

1. Runner up, Ethical Hacking Competition, SMEC '23-24, Sir Syed University of Engineering and Technology.
2. Runner up, Capture the Flag Competition, Procom '24, FAST NUCES
3. Runner up, Capture the Flag Competition, DevDay '24 FAST NUCES