

Asad Muhammad

Cybersecurity Enthusiast | Malware Analyst

📍 Islamabad, Pakistan

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Professional Summary

Cybersecurity student at Air University with hands-on experience in red teaming, malware analysis, and ethical hacking. Skilled in Python, C++, Bash, and network security. Passionate about securing digital systems and building tools for real-world threat detection and mitigation.

Education

Air University, Islamabad

BS Cyber Security – Aug 2023 – Present

IMCB G-10/4, Islamabad

FSc (Pre-Engineering) – 2021 – 2023

Matriculation (Science) – 2019 – 2021

Experience

Cyber Security Intern — Developer's Hub Corporation

Sep 2024 – Oct 2024

- Participated in real-world cybersecurity projects, focusing on ethical hacking, digital forensics, and vulnerability assessment.
- Collaborated with professionals to strengthen systems and stay updated on modern security practices.

Red Team Intern — CodeAlpha

Mar 2024 – Apr 2024

- Simulated real-world cyber attacks to identify vulnerabilities in systems.

- Gained expertise in reconnaissance, privilege escalation, and post-exploitation.
 - Developed custom exploits and collaborated on mitigation strategies.
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Projects

MailGuard – *Email Threat Detection System*

- Detects phishing, spam, and malicious content using IMAP scanning, link analysis, and keyword filtering.
- Features a user-friendly GUI and whitelist/blacklist control.

Pinky Virus – *Educational Malware (Assembly)*

- Alters file extensions and magic bytes in target directories.
- Demonstrates stealth and recursion in a safe research context.

Wifalyzer – *WiFi Signal Analyzer Tool*

- Scans WiFi networks and displays signal strength, frequency, BSSID, and encryption protocols.
- Includes heat maps, real-time updates, and graphical analysis.

Encryptify – *Python-Based Encryption App*

- Encrypts/decrypts text using randomly generated keys.
- Includes GUI (Tkinter) and CLI modes with persistent key storage.

CyberShell – *Custom Linux Terminal (C++)*

- Developed a full-featured Linux terminal in C++ that supports built-in and external command execution.
- Includes features like command logging, aliasing, colored output, prompt customization, and command timing.
- Designed with modular components and extensible structure for additional Unix shell functionalities.

Network Deauthenticator Tool – *WiFi Disruption Utility*

- A Python-based tool that sends deauthentication packets to disconnect users from targeted WiFi networks.
- Can be used to deauthenticate entire routers or specific clients, useful for penetration testing and auditing wireless networks.
- Supports monitoring mode, target selection, and real-time feedback.

Technical Skills

- **Languages:** Python, C++, Bash, Assembly
- **Cybersecurity:** Malware Analysis, Red Teaming, Penetration Testing
- **Tools:** Wireshark, Git, Nmap, Metasploit, Burp Suite
- **Soft Skills:** Problem Solving, Communication, Teamwork, Time Management