

# Asad Muhammad

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## 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.

## EXPERIENCE

### Cyber Security Intern

Developer's Hub Corporation

Sep 2024 – Oct 2024

- Participated in real-world cybersecurity projects, focusing on ethical hacking, digitalforensics, 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.

## SKILLS

Python, C++, Bash, Assembly

Malware Analysis, Red Teaming, Penetration Testing

Wireshark, Git, Nmap, Metasploit, Burp Suite

Problem Solving, Communication, Teamwork, Time Management

## PROJECT

### 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.

## EDUCATION

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### **BS Cyber Security**

Air University, Islamabad • Islamabad • Aug 2023 - Present

### **FSc (Pre-Engineering)**

IMCB G-10/4, Islamabad • Islamabad • 2021 - 2023

### **Matriculation (Science)**

IMCB G-10/4, Islamabad • Islamabad • 2019 - 2021