ALI MOAVIA

Cybersecurity Specialist | Digital Forensics | Penetration Testing

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PROFESSIONAL SUMMARY

Results-driven Cybersecurity Specialist with expertise in digital forensics, penetration testing, and vulnerability assessment. Recent graduate with hands-on experience in forensic analysis, ethical hacking, and security consulting. Proven track record in developing forensic tools and conducting comprehensive security assessments. Published researcher with practical experience in law enforcement cyber operations and security training. Proficient in using industry-standard tools including FTK, Belkasoft, Burp Suite, Metasploit, and Wireshark.

CORE COMPETENCIES

- Digital Forensics & Incident Response
- Penetration Testing & Vulnerability Assessment
- Network Security & Traffic Analysis
- Security Tool Development (Python)
- Web Application Security Testing
- Threat Intelligence & Risk Assessment
- Security Documentation & Reporting
- Training & Technical Instruction

PROFESSIONAL EXPERIENCE

Cybersecurity Consultant Trainee

Professional Freelancing Training Program (PFTP) | Lahore, Punjab

June 2025 – December 2025

- Conducted comprehensive reconnaissance and vulnerability scanning on web applications and network infrastructure to identify critical security weaknesses and potential attack vectors
- Performed hands-on Vulnerability Assessment and Penetration Testing (VAPT) exercises, successfully identifying high-risk vulnerabilities including SQL injection, XSS, and authentication flaws
- Delivered detailed VAPT and Security Assessment Reports with actionable remediation recommendations, prioritized by risk level and business impact
- Utilized industry-standard penetration testing methodologies and tools including Burp Suite, Metasploit, Nmap, and OWASP Testing Guide

Digital Forensics Intern

Punjab Police (Cyber Wing) | Bahawalpur, Punjab

January 2025 – February 2025

- Assisted in digital evidence collection, preservation, and chain-of-custody documentation for cybercrime investigations
- Supported forensic triage operations using FTK, Autopsy, and other forensic tools to extract and analyze digital artifacts from seized devices
- Prepared preliminary forensic reports documenting findings and evidence for law enforcement case files
- Gained practical experience in real-world cybercrime investigation procedures and digital evidence handling protocols

Teaching Assistant (Cybersecurity)

NAVTTC Bahawalpur | Bahawalpur, Punjab

July 2024 – September 2024

- Supported lead instructor in delivering theoretical and practical cybersecurity training covering Linux fundamentals, network security, and forensic analysis

- Designed and supervised hands-on laboratory exercises for students to practice security tools and techniques in controlled environments
- Evaluated student performance through grading assignments, quizzes, and technical reports, providing constructive feedback for skill development

PROJECTS & RESEARCH

Portable Forensic Analysis Tool (PFAT)

University Research Project | *Published Paper* | January 2024 – May 2024

- Developed PFAT, a Python-based forensic tool with Tkinter GUI that automates browser history and USB artifact collection for rapid digital forensics triage
- Integrated basic machine learning algorithms for intelligent artifact prioritization, reducing manual analysis time by approximately 40%
- Published research paper: *"Portable Forensic Analysis Tool for Collecting Artifacts from Browsers and USB"* in Spectrum of Engineering Sciences, August 2025

SpoofHawk: Email Spoofing Detection Tool

Self-Directed Security Project | October 2023 – March 2024

- Engineered a Python-based email spoofing detection system with Tkinter GUI, employing Random Forest machine learning algorithm for pattern recognition
- Implemented SPF and DKIM header validation to verify email authenticity and detect spoofing attempts in real-time
- Achieved 20% improvement in detection accuracy through synthetic data generation and model optimization techniques

AMN-DOS: Network Stress Testing Tool

Self-Directed Research Project | July 2023 – December 2023

- Created an ethical DDoS simulation tool in Python for network resilience testing using HTTP flood, Slowloris, and TCP SYN flood techniques
- Designed for controlled testing environments to help organizations assess and strengthen their network infrastructure against denial-of-service attacks
- Documented tool usage and security implications for cybersecurity education and awareness purposes

EDUCATION

Bachelor of Science in Cybersecurity & Digital Forensics

Islamia University of Bahawalpur (IUB) | 2021 – 2025

- Core Coursework: Cybersecurity, Digital Forensics, Network Security, Cryptography, Incident Response, Malware Analysis
- Final Year Project: Portable Forensic Analysis Tool (PFAT) - Published in peer-reviewed journal

TECHNICAL SKILLS

Forensic Analysis Tools: FTK Imager, Belkasoft Evidence Center, Autopsy, WinHex, Cellebrite (Basic), X-Ways Forensics

Penetration Testing: Burp Suite Professional, Metasploit Framework, OWASP ZAP, SQLMap, Hydra, Nikto, DirBuster

Network Security: Wireshark, Nmap, Tcpdump, Snort, Suricata, Netcat, Kali Linux

Programming & Scripting: Python (Expert), Bash Scripting, HTML/CSS/JavaScript, SQL, PowerShell

Operating Systems: Kali Linux, Ubuntu, Windows (10/11), Windows Server, Parrot OS

Security Frameworks: OWASP Top 10, NIST Cybersecurity Framework, MITRE ATT&CK, ISO 27001 (Familiar)

Version Control & Development: Git, GitHub, VS Code, Jupyter Notebook, Documentation

CERTIFICATIONS

Ethical Hacking | EC-Council | July 2023 | Credential ID: 235187

Digital Forensics Examiner | Alison | February 2024 | Credential ID: 4791-31673933

Basic Networking for CCNP ROUTE (300-101) | Cisco | February 2023

Front-End Web Developer | Sololearn | May 2020 | Credential ID: CT-LMMCBEF9

ADDITIONAL INFORMATION

Professional Platforms: TryHackMe (Rank: 410,790 | 25 Rooms | 8 Badges), HackTheBox, Bug Bounty Platforms

Awards & Recognition: Best Project Award - IEEE ComSoc UCET IUB (2024)

Languages: English (Professional Proficiency), Urdu (Native)

Soft Skills: Technical Documentation, Problem Solving, Security Reporting, Team Collaboration, Time Management, Continuous Learning