MUHAMMED FARIS

Certified Ethical Hacker | Certified Penetration Tester
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Professional Summary

Results-driven Ethical Hacker and VAPT Analyst with hands-on experience in offensive security, cybersecurity risk management, and exploit development. Skilled in identifying and mitigating security threats through comprehensive vulnerability assessments and penetration testing. Proficient in Python scripting for automation, custom tool development, and streamlining security processes. Specialized in threat modeling, security testing, and developing innovative cybersecurity solutions. Adept at leveraging scripting and automation to enhance testing efficiency and accuracy. Passionate about cyber threat analysis, malware investigation, and ethical hacking, with a strong commitment to strengthening organizational security and reducing digital risk across offensive and defensive operations.

Skills

- **Ethical Hacking & Offensive Security**: Web, Network, API Penetration Testing | Red Teaming | Exploit Development, Blue Teaming
- **Application Security Testing**: OWASP Top 10 (SQLi, XSS, SSRF) | Android Pentesting(Reverse Engineering, Static & Dynamic Analysis)
- **Vulnerability Assessment & Management**: Nmap, OpenVAS, Nessus, Nikto
- **Security Tools & Frameworks**: Metasploit, Burp Suite, Wireshark, Hashcat, John the Ripper, OSINT Techniques
- **Threat Intelligence & Malware Analysis**: Reverse Engineering | YARA Rules | Behavior Analysis | Threat Hunting
- **Programming & Automation**: Python, Bash, PowerShell – for Security Tooling, Automation, and Scripting
- **Cryptography & Secure Data Handling**: AES, RSA, Hashing (SHA, MD5), Steganography
- **Cybersecurity Research & AI-Driven Security**: AI-enhanced threat detection and automation aligned with CEH v13-AI methodologies

Experience

Red Team Hacker Academy — Calicut, Kerala, India
Cybersecurity Researcher — September 2024 - May 2025

- Researched offensive security, exploit development, and red teaming methodologies.
- Performed hands-on penetration testing on web, network, and API targets.
- Used tools like Metasploit, Burp Suite, Wireshark, and Nmap in simulated environments.
- Developed Python/Bash scripts to automate recon and vulnerability analysis.
- Participated in CTFs and advanced threat simulation labs.

Skill Vertex — Bangalore, Karnataka, India
Application Security Intern — August 2023 - September 2023

- Designed and implemented a secure image encryption/decryption tool using **AES encryption (CBC mode)** in Python.
- Developed an intuitive **Tkinter-based GUI** to enable seamless user interaction and encryption workflows.
- Conducted **vulnerability assessments** and improved cryptographic handling to enhance application security and resilience.

Education

Visvesvaraya Technological University — Karnataka, India
Bachelor of Engineering in Computer Science — December 2020 - May 2024

Certifications

- **Certified Ethical Hacker v13-AI** – *EC-Council*
  Industry-recognized certification demonstrating advanced expertise in offensive security, ethical hacking, AI-driven threat detection, and penetration testing of networks, applications, and systems.
- **Certified Penetration Tester v3** – *RedTeam Hacker Academy*
  Practical training in exploit development, red teaming operations, and full-scope penetration testing methodologies aligned with real-world attack scenarios.
- **Cisco Certified Ethical Hacker** – *Cisco Networking Academy*
  Credential validating foundational knowledge in cybersecurity principles, ethical hacking practices, and threat mitigation techniques.
- **Python for Cybersecurity** – *Professional Training Program*
  Completed in-depth training focused on automation, scripting, and custom security tool development using Python.
- **ICFEST 2024 – International Conference on Frontiers in Engineering Science and Technology**
  Participated and presented research on emerging cybersecurity innovations, contributing to knowledge exchange at a national academic forum.

Key Projects

- **Image Encryption and Decryption**
  Developed a Python Tkinter tool using cryptography for secure image storage and transmission.
- **AI-Driven Disease Prediction System**
  Built a machine learning model in Python for early disease detection from patient data.
- **AI-Based Automated Scanning & Enumeration Tool**
  Created an AI-powered cybersecurity tool to automate network scanning, vulnerability assessment, and enumeration, enhancing penetration testing efficiency.

Additional Details

Languages : English (Fluent), Malayalam (Native), Hindi(Beginner), Arabic(Beginner)