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ABOUT ME

Passionate and driven **Ethical Hacker** and **Aspiring Penetration Tester** with a strong foundation in cybersecurity. **Experienced** in ethical hacking, vulnerability assessments, and security testing, with **hands-on expertise** in tools like Metasploit, Burp Suite, Nmap, Wireshark, Command Line Tools, and Much More. **Skilled** in reconnaissance, exploitation, post-exploitation tactics, Host & Network Pentesting, and scripting. **Dedicated to** ethical hacking, red teaming, and helping organizations identify weaknesses also mentoring future cybersecurity professionals. **Constantly learning** and evolving to stay ahead in the ever-changing cybersecurity landscape.

SKILLS

- Penetration Testing
- Ethical Hacking
- Bash/Shell Scripting
- C++
- Python
- C Programming
- Pentesting Tools
- Computer Fundamentals
- Linux
- Fundamentals of Programming
- Web Application Hacking
- Host & Network Pentesting
- Automation
- Cybersecurity
- Self Motivation
- Teamwork
- Cryptography
- Artificial Intelligence (AI) Utilization
- ChatGPT
- Risk Analysis
- Prompt Engineering
- Problem Solving
- Communication
- Self learning
- HTML
- Team Leadership

WORK EXPERIENCE

Self-Taught Penetration Tester & Cybersecurity Enthusiast | Self Employed | Remote | Mar 2022 - Present

- Conducted** penetration testing on networks, operating systems, and web applications, to identify security vulnerabilities.
- Performed** privilege escalation attacks on Windows and Linux environments, gaining hands-on experience in system exploitation.
- Utilized** a wide range of tools, including Kali Linux, Parrot OS, Metasploit, Burp Suite, Nmap, John the Ripper, Hydra and Much more.
- Gained** deep expertise in enumeration, reconnaissance, and post-exploitation techniques to enhance security assessments.
- Continuously learning** advanced cybersecurity concepts, including red teaming, threat hunting, and secure coding.
- Continuously practicing** penetration testing techniques and gaining hands-on experience to improve my skills in real-world scenarios.

Cyber Security Intern | Prodigy InfoTech | Remote | Mar 2025 - Present

- Actively engaged** in ethical hacking and penetration testing at Prodigy InfoTech to bolster cybersecurity defenses.
- Crafting and refining** encryption tools to fortify data security measures.
- Performing** network packet analysis to detect and assess potential threats and system vulnerabilities.
- Engineering** robust security solutions tailored to mitigate real-world cybersecurity risks and improve system resilience.

CERTIFICATIONS

<https://www.linkedin.com/in/muhammad-izaz-haider-091639314/details/certifications/>

Penetration Testing and Ethical Hacking → (Cybrary)

CompTIA A+ 220-1101 → (Cybrary)

Linux 100: Fundamentals → (TCM Security)

Programming 100: Fundamentals → (TCM Security)

BASH Scripting → (Cybrary)

Python Hacking | PYCEH+ → (Udemy)

Ethical Hacking: System Hacking Phases and Attack Techniques → (Cybrary)

Ethical Hacking: Web Application Hacking → (Cybrary)

Ethical Hacking: Reconnaissance Techniques → (Cybrary)

Hydra Expert | Advanced Brute Forcing Techniques → (Udemy)

NMAP Advanced Techniques → (Udemy)

Cybersecurity Uncovered → (Udemy)

Mastercard - Cybersecurity Job Simulation → (Forage)

Certified Ethical Hacking (CEH) → (eHunar)

Application Security Fundamentals → (VTF University™)

Information Security Fundamentals → (Udemy)

Goldman Sachs - Software Engineering Job Simulation (I.T Security) → (Forage)

AIG - Shields Up: Cybersecurity Job Simulation → (Forage)

Embracing AI: Risks, Security, and Career Growth → (VTF University™)

Master ChatGPT → (UniAthena)

ANZ Australia - Cyber Security Management Job Simulation → (Forage)

C++ for Beginners: Mastering C++ Programming Essentials → (Udemy)

EDUCATION

High school diploma-(ICS)-Computer Science, DAWN SCIENCE COLLEGE, Barnala | 2024

- Acquired a robust foundation in programming (C++), problem-solving, and networking.
- Functioned as Class Representative, overseeing both academic and extracurricular initiatives.
- Contributed as an engaged participant in Cricket and Football teams, enhancing teamwork and discipline.
- Cultivated leadership and management skills through effective class coordination.

Matriculation-Computer Science , GOVT. HIGH SCHOOL FOR BOYS, HAZARA MUGHLAN, Gujrat | 2022

- Secured top academic honors in Computer Science.
- Enhanced leadership abilities as Class Monitor and Senior Organizer.
- Troubleshoot and resolved computer issues as a Lab Solver, aiding fellow students.
- Developed teamwork and resilience as a member of the Football Team.

PROJECTS

PROJECT: PENTEST LAB SETUP FOR ETHICAL HACKING

Technologies: VirtualBox, Parrot OS, Metasploitable 2, Networking

- **Configured** a secure pentesting lab with Parrot OS & Metasploitable 2.
- **Implemented** Host-Only & NAT networks for controlled testing.
- **Enabled hands**-on vulnerability assessment & exploitation.

PROJECT: PASSIVE INFORMATION GATHERING – ETHICAL HACKING

Technologies: WHOIS, Netcraft, DNSRecon, Google Dorks, TheHarvester & more

- **Conducted** stealthy passive reconnaissance to gather domain & network intelligence.
- **Identified** subdomains, tech stacks, WAFs, and potential security risks.
- **Extracted** sensitive data while ensuring ethical & legal compliance.

PROJECT: PASSIVE AUTOMATION V.3.1

Technologies: Bash Scripting, OSINT, Cybersecurity, Ethical Hacking

- **Developed** an Automated passive reconnaissance tool which utilize WHOIS, theHarvester, Sublist3r, Amass & more tools.
- **Ensured** ethical & legal compliance in information gathering.
- **Designed** a user-friendly, color-coded interface for enhanced readability.

PROJECT: ACTIVE-AUTOMATION V.3.1

Technologies: Bash Scripting, Nmap, Cybersecurity, Ethical Hacking

- **Developed** an automated reconnaissance tool for active, aggressive, and speedy network scanning.
- **Designed** a user-friendly, color-coded interface with log management features.
- **Implemented** advanced Nmap techniques with optimized performance and error handling.

PROJECT: KEYGEN-X: SECURE KEY GENERATION TOOL

Technologies: C++, Python, Cryptography, Cybersecurity, Penetration Testing

- **Developed** a secure, fast, and interactive password generator with customizable length options.
- **Integrated** a Python-based password strength checker to analyze security levels dynamically.
- **Designed** an intuitive CLI with an ASCII banner and UTF-8 support for an enhanced user experience.
- **Implemented** secure randomization techniques and cryptographic best practices for strong password generation.

EZCRYPT: PYTHON-BASED ENCRYPTION TOOL

Technologies: Python, Cryptography, Caesar Cipher, Cybersecurity

- **Developed** a secure encryption and decryption tool using the Caesar Cipher algorithm.
- **Designed** an efficient command-line interface for seamless message encoding and decoding.
- **Implemented** optimized shift value handling to support large encryption keys.
- **Strengthened** cybersecurity skills by applying cryptographic principles in real-world scenarios.
- **Created** as part of an internship project at **Prodigy InfoTech**, enhancing practical cryptography experience.

LOCK_CHECK: PASSWORD STRENGTH EVALUATION TOOL

Technologies: Python, Pynput, Cybersecurity, Penetration Testing

- **Developed** a Python-based tool to assess password strength based on security best practices.
- **Implemented** regex-based validation to ensure compliance with complexity requirements.
- **Designed** a real-time feedback system to guide users in creating stronger passwords.
- **Enhanced** cybersecurity awareness by integrating best password security practices.
- **Built** as part of my Cybersecurity **internship at Prodigy InfoTech**, gaining hands-on security experience.

KEYTRACE: ETHICAL KEYSTROKE LOGGER

Technologies: Python, Pynput, Cybersecurity, Ethical Hacking

- **Developed** an ethical keystroke logger for authorized security testing and research.
- **Implemented** real-time keystroke logging with user consent validation.
- **Optimized** logging by filtering unnecessary keys (Shift, Ctrl, etc.).
- **Ensured** responsible use by integrating security warnings and ethical guidelines.
- **Built** as part of my Cybersecurity **internship at Prodigy InfoTech**, enhancing hands-on cybersecurity expertise.

SNIFF-X: NETWORK PACKET SNIFFER

Technologies: Python, Scapy, Socket Programming, Cybersecurity

- **Developed** an ethical packet sniffer to analyze real-time network traffic.
- **Captured** and examined TCP, UDP, ICMP, and ARP packets with detailed insights.
- **Implemented** color-coded live output for enhanced readability.
- **Enhanced** networking knowledge by working with protocols and live traffic monitoring.
- **Built** as part of my Cybersecurity **internship at Prodigy InfoTech**, strengthening cybersecurity and scripting expertise.

EXTRA-CURRICULAR ACTIVITIES

MASTERCARD CYBERSECURITY JOB SIMULATION → (FORAGE) | Remote

- **Completed** a job simulation where I served as an analyst on Mastercard's Security Awareness Team
- **Analyzed and identified** which areas of the business needed more robust security training and implemented training courses and procedures for those teams
- **Helped identify and report** security threats such as phishing

GOLDMAN SACHS SOFTWARE ENGINEERING (I.T SECURITY) VIRTUAL EXPERIENCE PROGRAM → (FORAGE) | Remote

- **Completed** a job simulation as a Goldman Sachs governance analyst responsible for assessing **IT security** and suggesting improvements.

- **Identified** that the company was using an outdated password hashing algorithm by cracking passwords using Hashcat.
- **Wrote a memo** for my supervisor summarizing a range of proposed uplifts to increase the company's level of password protection including extending minimum password length and using a dedicated hashing algorithm.

AIG SHIELDS UP: CYBERSECURITY VIRTUAL EXPERIENCE PROGRAM → (FORAGE)

- **Completed** a cybersecurity threat analysis simulation for the Cyber Defense Unit, staying updated on CISA publications.
- **Researched and understood** reported vulnerabilities, showcasing analytical skills in cybersecurity.
- **Drafted a clear and concise email** to guide teams on vulnerability remediation.
- **Utilized Python skills** to write a script for ethical hacking, avoiding ransom payments by bruteforcing decryption keys.

ANZ AUSTRALIA CYBER SECURITY MANAGEMENT VIRTUAL EXPERIENCE PROGRAM → (FORAGE)

- **Completed** a cybersecurity simulation where I served as a security analyst in ANZ Australia's Cyber Security Management team.
- **Investigated** cybersecurity threats by analyzing network traffic and identifying malicious activities.
- **Performed** Packet Capture (PCAP) analysis to extract and inspect suspicious files.
- **Analyzed** phishing emails, flagged potential threats, and extracted hidden messages using forensic techniques.
- **Utilized** tools like Wireshark, Tshark, and Hex Editor in a secure Linux (Parrot OS) environment to conduct deep packet inspection and forensic investigations.

LANGUAGES

- English
- Urdu
- Punjabi

HOBBIES

- Cybersecurity learning & hands-on practice
- Researching & acquiring new skills
- Reading (Cybersecurity
- Penetration Testing
- IT Programming
- Computer Science
- Islamic History
- Self-Improvement)
- Scripting for automation
- Exploring new technologies & programming languages
- Playing cricket & video games
- Watching historical series & sci-fi movies
- Continuous self-learning & tech exploration.