Hamza Kaleem

SECURITY ENGINEER

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PROFESSIONAL SKILLS

- **Security:** Microsoft Azure, Microsoft Sentinel, ELK Stack, Web Pentest
- **Tools:** Burp Suite, Wireshark, Nessus, GVM, pwncat-cs, John, Virus Total, Static and Dynamic analysis
- **Programming:** Python, C++, Bash,
- **Microcontroller:** Arduino, Raspberry pi, Esp32, Jetson Nano
- **Network Sumulation/Management:** Cisco Packet Tracker, PFsense
- **Cloud Platform & Virtualization:** AWS Infrastructure, Google Cloud Platform, VM Workstation, VM ESXI
- **Operating Systems:** Kali Linux, Ubuntu, Windows Server, Windows

WORK EXPERIENCE

Pentest (Anonymous) – *Remote, Australia*   November 2022 – January 2023

- I enhanced network security by conducting penetration tests on three targets, resulting in the identification and mitigation of critical vulnerabilities.
- I identified three critical and several high vulnerabilities in the main asset, significantly enhancing overall cybersecurity posture.
- Delivered an extensive pentest report, including remediation steps and actionable security suggestions, enhancing system integrity and reducing potential vulnerabilities by 40%, ensuring compliance with industry standards.

National Cyber Security Auditing and Evaluation Lab – *Rawalpindi, Pakistan*   July 2022 – August 2022
(NCSAEL)

- Conducted in-depth security research on emerging cyber threats using Python and Wireshark; developed innovative detection algorithms that increased threat identification rate by 40% and reduced false positives by 25%
- Linux OS, ELK, Malware analysis, Incident Reporting, Digital Forensics, Networking, Network Security
- Leveraged Splunk and ELK to analyze data, enhancing real-time monitoring and improving incident response efficiency.

Pakistan Software Export Board (PSEB) – *Rawalpindi, Pakistan*   June 2022 – August 2022

- Researched cloud architecture, highlighting its scalability and cost-efficiency, which supported modern businesses' growth and operational optimization.
- Optimized cloud deployments by leveraging Docker and Kubernetes, demonstrating their seamless integration with AWS infrastructure to enhance efficiency.
- Enhanced security and performance by deploying a web application with custom traffic management rules, resulting in improved inbound and outbound traffic control.

President Signalianz Security HUB (SSH) MCS – *NUST, Pakistan*   June 2023 – July 2024

- Structured comprehensive training on cybersecurity, networking, and web hacking fundamentals, resulting in enhanced foundational knowledge for participants.
- I led workshops on Linux and DVWA, enhancing participants' practical skills and proficiency in cybersecurity applications, resulting in improved hands-on expertise.
- Directed CTF for NUST's inaugural hackathon, elevating the competition's prestige and engagement.
- Designed Boot-to-Root machines and web security challenges for CTF, enhancing the competition's complexity and providing a more engaging experience for participants.

EDUCATION

MCS National University of Sciences and Technology
Bachelor's in Electrical Engineering

PROJECTS

Security Posture Management

- Secured network infrastructure by deploying pfSense firewall and implementing vulnerability scanning.
- Established AD domain and integrated training computers through virtual machine (VM) integration.
- Enhanced network security by configuring Intrusion Protection and Detection Systems (IDS/IPS).

Designed a Cloud Network for Lateral movement.

- Hosted different EC2 instances with different vulnerable services.
- Gained access to the entire network by exploiting the services.

Evilgenix Phislets

- Created a new custom Phislets for Office 365.
- Accessed username, password, and Auth Tokens.
- Successfully bypassed 2FA.

Cart Rover - Smart Cart

- An autonomous cart connected to our central command center.
- Used RF and NFC sensors for product management and checkouts.
- Plays a vital role in the privacy of customers.

EXTRA-CURRICULAR

Coordinator and Mentor University Juniors 2022 – Present
Volunteer for Community Service
- Manage a WhatsApp group for university juniors, sharing relevant materials, including study guides, research papers, and online courses, to help students achieve their academic goals.
- Monitor group activity and respond to inquiries and concerns in a timely and professional manner.

Top 1% on [TryHackMe](#) HandsOn Practice
- Do interactive exercises based on real world scenarios, from hacking machines to investigating attacks.

NUST High Achiever awarded Gold Medal – 2023
- Secured the top position in a hackathon workshop competition among 200+ people from 6 universities., making me eligible for the NUST High Achiever award and earning a gold medal.

Ignite Hackathon 2022 - Participant
- Made it to the finals, being part of the **33rd-team shortlisted** from approximately 900 teams.
- Ranked 15th in the finals, with our team standing out as the best among university teams.

Ignite Hackathon 2023 - Participant
- Top 8 (Red Team) Semi-Finals - Islamabad/Rawalpindi Region (4 First Bloods)

CERTIFICATIONS

- **Certified Ethical Hacker Practical (CEH-P)** – EC-Council
- **Basic of Cyber Security** - TRYHACKME
- **Jr. Penetration Tester** - TRYHACKME
- **AppSec Practitioner (CAP)** - The SecOps Group
- **Web Hacking** - TRYHACKME
- **CompTIA Pentest+** - TRYHACKME
- **Linux and Windows Privesc** – TCM