

# Safi Ullah Khan

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## PROFILE

As a graduate in Computer System Engineering, specializing in Web Security Analysis, Penetration Testing, database and python scripting, I excel in fortifying web applications against cyber threats. My expertise includes identifying vulnerabilities and implementing robust security measures to ensure resilient digital defenses. Additionally, my skills in programming and cryptography further enhance my ability to ensure secure communication and data transmission

## PROFESSIONAL EXPERIENCE

### Cybersecurity Auditor Botium Toys

01/2023 – 06/2024

- Conducted comprehensive NIST CSF-based cybersecurity audit.
- Assessed security program, identified and mitigated the risks.
- Recommended control best practices to enhance security posture.
- Assigned risk score of 8/10, highlighting critical areas for improvement.
- Developed actionable security improvement recommendations.
- Enhanced the overall security posture and compliance readiness.
- Identified critical vulnerabilities, contributing to improved security.
- Supported development of business continuity and compliance plan.

### Incident Handler Healthcare Clinic

06/2023 – 01/2024

- Managed ransomware attack incident, documenting impact and initiating response.
- Identified potential attack vectors and identified malicious perpetrators.
- Advised on prevention strategies and ethical considerations for ransom payment.
- Led incident response, ensuring minimal impact on patient data and operations.
- Recommended improvements to cybersecurity practices and incident response protocols.

### National Cyber Security Center UET Peshawar

01/2021 – 2024

- Assisted in cybersecurity research projects, including vulnerability analysis and testing.
- Contributed to the development of cybersecurity strategies and best practices.
- Participated in the implementation of security measures to protect systems and data

## PROJECTS

### Secure Data Communications

01/2023 – 2023

- Implemented AES (Advanced Encryption Standard) for securing data communications
- Used AES with a 128-bit key for securely encrypting sensitive data during transmission
- Ensured data confidentiality and integrity by effectively employing AES encryption
- Integrated AES encryption into the communication protocol to protect data in transit

### NCCS-UET TestBeb for Web Applications vulnerabilities

10/2023

#### OWASP Top 10 Vulnerabilities

- Explore detailed analysis of each vulnerability
- check their impact and potential risks
- Identify Common attack vectors

### Malware Detection Using Machine Learning

- Developed a sophisticated, automated system to detect and neutralize malware threats
- enhancing cybersecurity by identifying malicious patterns and protecting against malware threats

### Network Sniffer and Monitoring

01/2023 – 05/2023

#### Network Sniffer Operation

- How network sniffers capture data
- Ethical and legal implications of network sniffing
- Privacy concerns and data protection
- Countermeasures against unauthorized sniffing

## SKILLS

- Web Security
- SIEM tools
- Python for Cybersecurity
- Information Technology
- Systems Engineering
- Excel
- SQL
- Security frameworks and controls
- Networking
- Kali Linux
- Cryptography
- Incident response
- Threat risks and Vulnerabilities
- Threat Analysis
- Linux command line
- Burp suite & Nessus

## EDUCATION

**BS : Computer System Engineering** [↗](#)

11/2020 | Peshawar, Pakistan

## CERTIFICATES

- Digital Forensics & Cyber Security [NAV TTC]
- Ethical Hacking Essentials (EHE) [↗](#)
- Fundamentals of Network Communication [↗](#)
- Google Cybersecurity [↗](#)
- SQL Injection Attacks
- Work Smarter with Microsoft Excel [↗](#)
- Securing Software, Data and End Points [↗](#)
- Introduction to Python for Cybersecurity [↗](#)
- Introduction to Dark Web Anonymity , And cryptocurrency
- Wireshark for Basic Network Security Analysis [↗](#)
- Peer-to-Peer Protocols and Local Area Networks [↗](#)
- Encryption with Python: Encrypt data with key pairs [↗](#)