Muhammad Zeeshan

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Professional Summary

Cybersecurity and Digital Forensics graduate (CGPA: 3.68/4.00) with hands-on experience in Vulnerability Assessment and Penetration Testing (VAPT), web and network security, digital forensics, and blockchain-based secure systems. Skilled in identifying OWASP Top 10 vulnerabilities, analyzing network traffic with Wireshark, and automating cybersecurity tasks with Python. Experienced in developing secure applications in Python and C++, leading technical learning initiatives, and publishing research on secure systems. Certified in ethical hacking, IT security, forensics, and generative AI, seeking a junior-level role in VAPT, Application Security, Penetration Testing, or Digital Forensics.

Technical Skills

VAPT & AppSec: Vulnerability assessment, penetration testing, web application security, authentication & access control testing, structured security reporting, OWASP Top 10 exploitation.
Tools & Labs: OWASP Juice Shop, BWAPP, Wireshark, Belkasoft Windows & Android Forensics Labs, Snort IDS (basic), Cowrie Honeypot.
Systems: Linux, Windows
Scripting: Python, Bash, C++, C#, full-stack development fundamentals.
Additional Skills: Digital forensics, ethical hacking, network traffic analysis, secure web application development, research & problem-solving.

Education

BS Cyber Security & Digital Forensics — CGPA: 3.68/4.00 **2021 – 2025**
The Islamia University of Bahawalpur *Bahawalpur, Pakistan*

- Specialized in web security, network security, digital forensics, vulnerability assessment, and secure systems.
- Completed extensive lab-based coursework with structured technical documentation and reporting.

Volunteering

Section Leader — Stanford University: Code in Place
Apr 2025 – Jul 2025

- Lead weekly live sessions to teach core programming concepts using Python.
- Provide personalized feedback on student assignments and coding exercises.
- Foster an inclusive and supportive learning environment.
- Assist learners in debugging code and improving problem-solving skills.
- Track student progress and encourage consistent engagement.
- Collaborate with the teaching team to ensure high-quality instruction in a remote setting.

Publications

- Cybersecurity on a Budget: How Small Businesses Can Protect Themselves

ResearchGate — ***Show Publication***

- Encryptify – Secure End-to-End Encrypted Email Platform
  Google Scholar — ***Show Publication***

Certifications

- BelkaGPT: Effective Artificial Intelligence in DFIR — Belkasoft — Verify Credentials
- Certified Cybersecurity Educator Professional — RED TEAM LEADERS — Verify Credentials
- 2025 Aspire Leaders Program — Aspire Institute — Verify Credentials
- Generative AI Application Developer Certificate — Pak Angels — Verify Credentials
- Code in Place Section Leader — Stanford Online — Verify Credentials
- IT Security: Defense against the digital dark arts — Google — Verify Credentials
- System Administration and IT Infrastructure Services — Google — Verify Credentials
- Assets, Threats, and Vulnerabilities — Google — Verify Credentials
- Automate Cybersecurity Tasks with Python — Google — Verify Credentials
- Connect and Protect: Networks and Network Security — Google — Verify Credentials
- Google Cybersecurity Specialization — Google — Verify Credentials
- Google IT Support — Google — Verify Credentials
- Office of the CISO Institute: Cybersecurity Essentials — Google — Verify Credentials
- Play It Safe: Manage Security Risks — Google — Verify Credentials
- Sound the Alarm: Detection and Response — Google — Verify Credentials
- The Bits and Bytes of Computer Networking — Google — Verify Credentials
- Tools of the Trade: Linux and SQL — Google — Verify Credentials
- CS50x Puzzle Day — Harvard University — Verify Credentials
- Windows Forensics with Belkasoft — Belkasoft — Verify Credentials
- Pakistan Cryptography Challenge — NCCS — Verify Credentials
- Introduction to Cybersecurity — Cisco — Verify Credentials
- Cyber Threat Management — Cisco — Verify Credentials
- Git for Beginners — Udemy — Verify Credentials
- Android Forensics with Belkasoft — Belkasoft — Verify Credentials
- Ethical Hacker — Cisco — Verify Credentials
- Introduction to Dark Web, Anonymity, and Cryptocurrency — EC-Council — Verify Credentials
- Amazon S3 Simple Storage Service (Deep Dive) — Udemy — Verify Credentials
- Master Course in Artificial Intelligence & Deep Learning 3.0 — Udemy — Verify Credentials
- Master Course in Chatbot Technology and Google Bard AI — Udemy — Verify Credentials
- Master Course in Zero Trust Architecture 2.0 — Udemy — Verify Credentials
- Foundations of Cybersecurity — Google — Verify Credentials
- Foundations of Cybersecurity — Coursera — Verify Credentials
- Technical Support Fundamentals — Google — Verify Credentials
- Technical Support Fundamentals — Coursera — Verify Credentials
- Problem Solving — HackerRank — Verify Credentials
- C# — HackerRank — Verify Credentials
- Introduction to Generative AI — Google CSB — Verify Credentials
- Java — HackerRank — Verify Credentials
- Python — HackerRank — Verify Credentials
- The Fundamentals of Digital Marketing — Google Digital Garage — Verify Credentials
- ICIP Certification — OPSWAT Academy — Verify Credentials

Experience

FiveM Developer (Fiverr, Upwork & Discord) **Jan 2020 – Present**
Digital Empowerment Network (DEN) *Freelance*

- Designed, developed, and maintained **custom FiveM scripts and mods** using C++, C#, and Python.
- Conducted research to implement optimized gameplay mechanics, server-side logic, and performance enhancements.
- Collaborated with online development communities to debug issues and improve stability.
- Created visual assets and UI elements using **Adobe Photoshop and Illustrator** to enhance user

experience.
- Managed long-term projects, version updates, and feature improvements for multiplayer environments.

Development Intern (Skills Up) **Jun 2024 – Sep 2024**
Digital Empowerment Network (DEN) *Pakistan*
- Wrote, tested, and debugged **Python and C++ code** for academic and real-world applications.
- Contributed to **front-end and back-end development** of web applications.
- Collaborated with team members to improve code quality, performance, and functionality.
- Conducted technical research to solve complex programming and development challenges.
- Assisted in implementing secure coding practices and basic **web security concepts**.

Cyber Security Intern (Prodigy InfoTech) **Apr 2024**
Digital Empowerment Network (DEN) *Pakistan*
- Gained hands-on experience with **cybersecurity tools and methodologies**.
- Assisted in identifying security risks related to **network security and information systems**.
- Performed basic security analysis and documented findings related to cyber risk exposure.
- Strengthened understanding of cybersecurity fundamentals, threat landscapes, and defensive controls.

Cyber Security & Ethical Hacking Intern (TechnoHacks EduTech Official) **Apr 2024**
Digital Empowerment Network (DEN) *Pakistan*
- Practiced ethical hacking concepts in controlled lab environments.
- Learned reconnaissance, vulnerability identification, and basic exploitation techniques.
- Developed awareness of **ethical guidelines, legal boundaries, and responsible disclosure**.
- Documented findings and mitigation strategies for common security issues.

Python Programming Intern (CipherByte Technologies) **Apr 2024**
Digital Empowerment Network (DEN) *Pakistan*
- Developed Python scripts for automation and problem-solving tasks.
- Applied programming fundamentals to real-world scenarios and mini-projects.
- Improved code readability, debugging practices, and logical problem-solving skills.
- Collaborated remotely to meet development milestones and deliverables.

Projects

Encryptify – Secure End-to-End Encrypted Email Platform
Designed and co-developed a web-based secure email encryption platform enabling end-to-end encrypted communication without requiring separate user accounts.

- Implemented **AES-256, DES-128, and hybrid RSA+AES encryption** for email subjects, bodies, and attachments.
- Integrated **Gmail API with OAuth 2.0** for secure authentication and encrypted email transmission.
- Designed **client-side key generation and lifecycle management**, ensuring no keys or sensitive data are stored on the server.
- Built encrypted inbox filtering and controlled decryption workflows for enhanced usability and privacy.
- Evaluated platform security against threats including **MITM, replay attacks, phishing, and token hijacking.**
- Conducted functional testing and user evaluation, achieving **90%+ satisfaction** in usability and clarity.
- Presented the project at an **IEEE conference** and published a comparative analysis against ProtonMail and GnuPG.

Web Guardian – Automated Web Application Vulnerability Scanner (OWASP ZAP)
Developed an automated vulnerability assessment tool to streamline web application security testing

using OWASP ZAP.

- Automated **spidering and active scanning** via OWASP ZAP API to identify security weaknesses.
- Detected vulnerabilities aligned with **OWASP Top 10**, including broken authentication and input validation flaws.
- Extracted, analyzed, and stored scan results with detailed vulnerability descriptions.
- Generated structured security reports with reproduction steps and remediation guidance.
- Authored comprehensive technical documentation covering setup, scanning methodology, and ethical testing practices.

Encryptit – Secure File Encryption Desktop Application
Designed and implemented a desktop-based academic management system to streamline administrative and student workflows.

- Implemented **Fernet symmetric encryption** for protecting sensitive files.
- Designed automated encryption key generation and secure key handling workflows**.**
- Developed an intuitive GUI enabling one-click encryption and decryption operations.
- Ensured data integrity while maintaining ease of use for non-technical users.

EduSync – Student Record & Management System
Built a user-friendly desktop application for secure file encryption and decryption using symmetric cryptography.

- Developed **admin and student portals** for managing academic records, results, complaints, and sports activities.
- Implemented secure **authentication and password recovery mechanisms.**
- Built CRUD-based record management with reporting and Excel export features.
- Enhanced data accuracy, usability, and operational efficiency for educational institutions.

GestureQuest – Gesture-Controlled Gaming Application
Created an interactive desktop application enabling gesture-based game control using computer vision.

- Implemented **real-time hand gesture recognition** using Python and OpenCV.
- Enabled gesture-driven game navigation and execution without traditional input devices**.**
- Designed a scalable architecture allowing easy integration of new games and gestures.
- Demonstrated innovative human–computer interaction through intuitive motion-based controls.

MediEnhance – Medical Image Enhancement Tool
Developed a Python-based image enhancement application optimized for medical and forensic imaging.

- Applied **histogram equalization, adaptive thresholding, and noise reduction** techniques.
- Enhanced clarity and contrast of endoscopic images for improved diagnostic analysis**.**
- Implemented real-time image comparison to support faster decision-making.
- Designed a clean, user-friendly interface suitable for medical professionals.

PyroSentry – Real-Time Fire Detection & Alert System
Built an intelligent fire detection system using computer vision and automated alerting.

- Implemented real-time video analysis to detect fire-like patterns using OpenCV.
- Triggered **audible alarms and automated email alerts** upon detection**.**
- Designed for rapid response to minimize risk to life and property.

- Demonstrated practical application of AI-driven monitoring systems for safety automation.

RoboPilotX (PiBotControl) – Raspberry Pi Robot Control System
Developed a GUI-based robotic control system using Raspberry Pi and Python.

- Implemented GPIO-based motor control via an intuitive graphical interface.
- Enabled real-time directional control and command execution**.**
- Designed for educational use, prototyping, and robotics experimentation.
- Bridged hardware control and user experience through responsive UI design.

Additional

Languages: English, Urdu
Interests: Vulnerability Assessment, Application Security, Penetration Testing, Network Security