Ziad Mahmoud

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Professional Summary

Computer Science graduate with a solid foundation in cybersecurity, networking, and backend development. Possesses practical expertise in ethical hacking, vulnerability assessment, and penetration testing through ITI training and advanced CTF platforms (Hack The Box). Highly adaptable and analytical, with a strong commitment to continuous learning and staying ahead of emerging cyber threats.

Experience

Information Technology Institute (ITI)
Cyber Security intern

Aug 2024 – Sept 2024
Cairo, Egypt

- Acquired core networking skills through CCNA training, building a strong foundation in network infrastructure and protocols.
- Executed vulnerability scans and successfully exploited two critical vulnerabilities in controlled lab environments, reinforcing practical penetration testing expertise.
- Explored cloud security concepts, red team operations, and Python scripting for security automation tasks.

Cybersecurity Platforms
Hack The Box – Rank: Hacker

- Compromised 15+ Hack The Box machines simulating real-world attack vectors across web exploitation, privilege escalation, and reverse engineering.
- Practiced end-to-end penetration testing workflows, from enumeration and exploitation to post-exploitation.
- Achieved Hacker rank, demonstrating consistent performance in offensive security challenges.

ByteWave
Backend Developer

May 2024
Remote

- Developed and maintained backend systems using PHP, focusing on building efficient and secure server-side logic.
- Gained deeper insight into web application security by understanding how vulnerabilities affect backend code, like SQL injection and access control flaws.

Education

Modern University for technology & information (MTI)
BS in Computer Science (GPA: 3.0 / 4.0)

Sept 2021 – July 2025
Cairo, Egypt

Projects

Vulnerability Assessment Report | Kali Linux, OpenVAS

- Conducted a full vulnerability assessment on a virtual web application using OpenVAS on Kali Linux.
- Generated and analyzed detailed security reports, identifying high-risk vulnerabilities and suggesting mitigations.

SQL Injection Exploit Tool | Python, DVWA

- Developed and tested a Python script to detect and exploit SQL injection vulnerabilities in DVWA, verifying payload execution in a controlled environment.

DoS Detection System | Python

- Developed a lightweight Python-based DoS detection system that identified and flagged 95% of anomalous traffic spikes during simulated attack testing.
- Designed logic to alert for sudden spikes in traffic and repeated connection attempts.

Technical Skills

Languages: Python, PHP, JavaScript, HTML/CSS, SQL, C++

Cybersecurity Tools & Platforms: Kali Linux, BurpSuite, Nmap, OpenVAS, Wireshark, Metasploit, John the Ripper, sqlmap, Gobuster. Hack The Box, VMware, TryHackMe

Technologies: VMware, Laravel, MySQL, GitHub, Postman

Certifications & Training

- **Web PenTesting in Practice – ITI Platform Mahara-Tech:** Hands-on training in identifying and exploiting web application vulnerabilities using real-world techniques.   Aug 2025
- **CCNA (Cisco Certified Network Associate):** Comprehensive training in networking fundamentals, IP addressing, routing, switching, and foundational network security principles.   Sept 2024
- **Cybersecurity Course – IT Share Academy:** Practical training in ethical hacking, vulnerability assessment, and security fundamentals.   May 2024
- **Cybersecurity Summer Camp – ITI:** Intensive hands-on program focused on ethical hacking, red teaming basics, and foundational networking.   Aug 2024
- **Introduction to Cybersecurity – ITI Platform Mahara-Tech:** Covered core cybersecurity concepts, including threat types, secure practices, and security layers.   Apr 2023