

# Hussein Ibrahim Hussein

Entry-Level Penetration Tester | Red Team Enthusiast

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## Summary

Computer Science graduate with strong foundational knowledge in cybersecurity and a growing interest in offensive security. Focused on learning and practicing web and network penetration testing, ethical hacking, and vulnerability assessment through CTFs, bootcamps, and self-driven projects. Passionate about building hands-on skills and eager to apply them in real-world environments as part of a collaborative security team.

## Professional Experience

- **Bootcamp – DFIR Bootcamp for Egyptian undergraduates** Oct-Nov 2024
  - Built strong foundational knowledge in digital forensics, incident response, and malware analysis through guided labs and case-based learning.
  - Explored real-world cyber threat scenarios and forensic investigation techniques.
- **Summer Internship – Cybersecurity summer internship (ITI)** Aug-Sep 2024
  - Gained practical experience in network fundamentals, routing & switching, and cybersecurity essentials.
  - Practiced with tools like Burp Suite, and explored ethical hacking concepts in simulated labs.
  - Introduced to enterprise-grade firewalls like Fortinet (NSE4) and Palo Alto, with basic exposure to configuration tasks.
- **Intern – CIB Summer Internship (CIB)** Aug-Sep 2024
  - Participated in a multidisciplinary internship focused on soft skills, financial literacy, and future workplace readiness.
  - Improved communication, team collaboration, and leadership skills through interactive workshops.
- **Bootcamp – CyberTalents Bootcamp Cohort 5 (CyberTalents)** Dec-Dec 2023
  - Completed hands-on labs in ethical hacking, Burp Suite, encryption, and hash cracking.
  - Strengthened penetration testing skills by solving real CTF challenges.
  - Explored core web technologies such as HTML5 and basic JavaScript.

## Volunteering Experience

- **Head of Cyber Security Team at DevHub** Mar 2024/Present
  - Lead a team of 20+ members, delivering training sessions and practical labs on cybersecurity topics.
  - Mentor members to build hands-on skills and coordinate workshops and challenges.

- **Cyber Security member at GDSC El Shorouk Academy** Oct 2023 /Aug 2024
  - Contributed to cybersecurity projects and activities, supported team efforts, and assisted in technical tasks and workshops.

## Education

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- **Bachelor of Science in Computer Science – El Shorouk Academy** (2025)

## Languages

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- Arabic – Native Language
- English – (Reading & Writing) Good | (Listening & Speaking) Good

## Courses

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- **Python Programming – MaharaTech - ITIMooca** Jun 2024
  - Learned Python programming fundamentals, including syntax, data structures, and scripting for automation and problem-solving.
- **Ethical Hacking – MaharaTech - ITIMooca** Jun 2024
  - Learned penetration testing techniques and tools to identify and fix security vulnerabilities ethically.
- **Red Hat System Administration I – MaharaTech - ITIMooca** Apr-Jun 2024
  - Linux system administration fundamentals on Red Hat Enterprise Linux.
  - Managed users, groups, and file permissions.
  - Controlled processes and configured network services with systemd.
  - Used OpenSSH for secure remote access.
  - Performed package management and system troubleshooting
  - Analyzed system logs and configured storage.
- **Introduction to Cyber Security – Cisco** Apr 2024
  - fundamental cybersecurity concepts including threat types, cryptography basics, and network security principles .
  - Explored risk management, security policies, and best practices for protecting information systems.
  - Earned awareness of cybersecurity roles and career paths.
- **Ubuntu Linux Essentials – MaharaTech - ITIMooca** Mar 2024
  - Navigated the Linux file system and used terminal commands
  - command-line arguments and options
  - Users, groups, and permissions
  - Created and manipulated files, directories, and symbolic links
  - Worked with vi editor, shell variables, and virtual consoles
  - Controlled system processes and priorities

- Used redirection, searched and sorted files, and checked inodes
- Compressed, archived, and backed up data using CLI tools

## Certifications

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- **Red Hat System Administration I – MaharaTech - ITIMooca**
- **Summer Internship Cyber Security – ITI**
- **CIB Summer Bootcamp – CIB**
- **Introduction to Cybersecurity Bootcamp Cohort 5 – CyberTalents**
- **Introduction to Network Security – MaharaTech - ITIMooca**
- **DFIR Bootcamp For Egyptian Undergraduates – ITI & CyberTalents**
- **Introduction to Cybersecurity – Cisco**
- **Cybersecurity For Beginners – MaharaTech - ITIMooca**
- **Ubuntu Linux Essentials – MaharaTech - ITIMooca**
- **Ethical Hacking – MaharaTech - ITIMooca**
- **Implementation of Computer Network Fundamentals – MaharaTech - ITIMooca**
- **Cyber Security Workshop – GDSC**
- **Python Programming Basics – MaharaTech - ITIMooca**
- **Computer Network Fundamentals – MaharaTech - ITIMooca**
- **Cloud and Virtualization Concepts – MaharaTech - ITIMooca**
- **Network Virtualization Concepts – MaharaTech - ITIMooca**

## Projects

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- **NFC-Enabled Smart Medical Records System – Graduation Project**
  - A secure healthcare solution leveraging NFC technology to manage patient medical records via mobile and desktop applications. I independently led the UI/UX design and cybersecurity implementation, ensuring a user-friendly experience and robust data protection. In collaboration with a teammate, I contributed to the Flutter mobile app and Windows Forms (C#) desktop application development, enabling efficient NFC data reading and management for patients and healthcare providers.
- **Hash Cracker**
  - A Python-based command-line tool for ethical hash cracking. Supports MD5, SHA1, SHA224, SHA384, and SHA512 with both interactive and automated modes. Features include wordlist-based attacks, hash file input, and user-friendly CLI with auto-completion.
- **Network Packet Sniffer & Analyzer**
  - A Python-based packet sniffing and analysis tool using Scapy. Captures and logs TCP, UDP, and HTTP traffic with support for custom BPF filters. Provides real-time statistics and saves detailed logs for further inspection.
- **ICMP Packet Sender**
  - A Python-based network diagnostic tool that uses Scapy to send and receive ICMP packets. Features dynamic IP input, detailed packet logging, and real-time response capture for learning and troubleshooting network connectivity.
- **Port Scanner**

- A Python tool that scans specified IP addresses or ranges to detect open TCP ports. It supports customizable scanning options, provides detailed results, and is useful for network security assessments and vulnerability analysis.

- **Networking Practice & Simulations**

- VLANs, Trunking, VTP, and Port Security implementation
- Switching and Routing protocols: RIPv2, OSPFv2 configuration
- Network services setup: DHCP, Static NAT
- Secure device access via SSH configuration
- Access Control with Extended ACLs
- IP addressing and subnetting design and validation

- **Password Cracking & WiFi Security Exploration**

- Practiced password cracking techniques using tools like John the Ripper and Hydra on simulated environments.
- Explored WiFi security concepts using aircrack-ng suite (airmon-ng, airodump-ng, aireplay-ng, aircrack-ng).
- Understood the risks of weak encryption (WEP/WPA) and importance of secure network configurations.
- Focused on educational, ethical, and controlled lab environments only.

## Technical Skills

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- **Penetration Testing:** Basic web and network penetration testing, vulnerability scanning, and CTF experience. Familiar with common phases such as reconnaissance, enumeration, exploitation, privilege escalation, and post-exploitation.
- **Tools & Frameworks:** Burp Suite, Nmap, Wireshark, John The Ripper, Hydra, basic use of Metasploit
- **Programming:** Python (good), Bash (basic), JavaScript (familiar), C++ (basic), C# (good).
- **Networking:** TCP/IP, OSI Model, VLANs, RIPv2, OSPFv2, DHCP, NAT, SSH, Access Control Lists (ACLs).
- **Security Concepts:** Hashing, encryption, authentication, access control, common web vulnerabilities (XSS, SQLi), Password cracking techniques (dictionary attacks, brute-force), wireless network security (WEP/WPA), ethical WiFi testing.
- **Operating Systems:** Linux (Ubuntu, Kali, Red Hat), Windows.
- **Development:** Flutter (basic), C# Windows Forms, UI/UX Design.
- **Other Knowledge Areas:** Firewall introductory knowledge of firewalls (FortiGate NSE4, Palo Alto), basic incident response and digital forensics from bootcamps.
- **Productivity:** Microsoft Office (Word, Excel and PowerPoint)

## Personal Skills

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- Leadership experience as Head of Cybersecurity Workshop at DevHub.
- Multitasking.
- Decision making and strategic planning.
- Detail-Oriented with a Security Mindset
- Adaptable and Quick Learner.
- Passionate About Continuous Learning and Growth.