

Amr Khaled Ahmed

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Objective

Cybersecurity and software development student at Cairo University with proficiency in C++, Python, Java, Assembly, SQL, and JavaScript. Focused on Red Team operations, malware analysis, and web penetration testing. Passionate about continuous learning through hands-on projects, cybersecurity competitions, and in-depth research.

Education

Cairo University, Giza, Egypt

2023 - Present

- Faculty of Computers and Artificial Intelligence.
 - Expected year of graduation **2027**

Skills and Abilities

Technical Skills:

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|---|---|
| - Version Control (Git, GitHub) | - C, CPP, Java, Python, JavaScript |
| - Microsoft SQL Server | - Assembly |
| - Debian, Linux, Kali Linux, Fedora | - HTML, CSS, Tailwind, Bootstrap, JavaScript. |
| - Penetration Testing Using Tools | - React, Django |
| - Malware Analysis Tools (e.g., Ghidra, IDA Pro) | - SQL |
| - Networking, Web Security, and other relevant skills | - Bash, PowerShell, Batch Script |

Experience

- **Training in Xpand CS academy** **7/2025 – 7/2025**
 - Intensive cybersecurity training delivered by instructors from MCS.
 - Covered network infrastructure, network security, and ethical hacking fundamentals.
 - Hands-on training on Palo Alto firewall configuration and cloud infrastructure virtualization.
 - Gained foundational skills in virtualized environments, network protection, and offensive security basics.
- **Cybersecurity Member – (DSC), Cairo University** **4/2025**
 - Participated in organizing and supporting cybersecurity workshops.
 - Contributed to technical sessions.
 - Collaborated with team members to engage the university community in tech learning.

Certificates

- **Malware Analysis Fundamentals Workshop** **7/2024 – 5/2025**
Google Developer Student Clubs (GDSC) - Cairo University
Completed a comprehensive workshop led by Eng. Eslam Mohamed Abbas covering:
 - Programming basics (C, Python), OS concepts, CPU architecture, networking fundamentals
 - Malware types, analysis steps, static and dynamic analysis techniques
 - Use of tools like IDA Pro, Ghidra, and debuggers for reverse engineering
 - Advanced anti-analysis techniques, memory forensics, YARA rules creation
 - Final project analyzing a real malware sample end-to-end
- **Mahara-tech Red Hat System Administration I** **4/2025 – 6/2025**
 - Study essential Linux system administration skills such as user management, file systems, shell scripting, networking, and service configuration on RHEL.
- **Mahara Tech CHE ethical hacking** **4/2025 – 5/2025**
 - Gained knowledge in penetration testing, vulnerability assessment, reconnaissance, exploitation, and post-exploitation techniques.
- **Mahara-tech Cloud and Virtualization Concepts** **6/2025 – 6/2025**
 - Learned core concepts of cloud computing and virtualization technologies, including virtual machines, cloud service models, and resource management.
- **Network Security** **6/2025 – 6/2025**
 - Studied firewalls, VPNs, intrusion detection/prevention systems (IDS/IPS), and essential practices for securing networks and data in transit.
- **Mahara-tech Network Virtualization Concepts** **5/2025 – 6/2025**
 - Understood virtual networks and their use in cloud and enterprise environments, including VLANs, virtual switches, and SDN (Software Defined Networking).
- **Mahara-tech Network Fundamentals Certification** **3/2025 – 4/2025**
 - Built strong understanding of TCP/IP, OSI model, routing, switching, subnetting, and common network protocols.

Open-Source Contributions & GitHub Projects

- **CyberSec Toolkit**
 - *GitHub:* <https://github.com/Amr-Khaled-Ahmed/CyberSec-Toolkit>
 - Developed a comprehensive cybersecurity toolkit with various offensive and defensive tools to assist in penetration testing and security assessments.
 - Tools: Nmap, Windows powershell, bash script
- **Some Cipher for Fun**
 - *GitHub:* <https://github.com/Amr-Khaled-Ahmed/some-cipher-for-fun>
 - Implemented classical and custom cipher algorithms in Python as a cryptography learning exercise.
Algorithms: Atbash, Baconian, Polybius Square, Simple Substitution, Rail Fence, Route, Vignere, XOR, Affine, Morse

Languages

- Arabic.

- English.