

# Michael Medhat Mounir

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Penetration Tester  
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Tryhackme  
CyberTalents  
HackTheBox

## Summary

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Cybersecurity specialist with 3+ years of hands-on experience in penetration testing, system security, and infrastructure hardening. Graduated from Faculty of computer science Ain Shams with a CGPA of 3.31. Published IEEE ICICIS2023 research on blockchain security. Ranked Top 1% on TryHackMe and Top 3 in international CTFs. Skilled in offensive/defensive security, SIEM, and security automation. Certified security lecturer, mentor and team leader.

## Experience

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### Cyber Security Associate | ITI:

Feb 2025 – Jul 2025

- Immersed in an intensive 4-month program specialized in cybersecurity and networking:
- Designed secure network architectures, applying CCNA, SOC monitoring, and SIEM event analysis.
- Managed Red Hat and Windows Server environments, Improving up-time and misconfigurations.
- Worked with advanced firewalls: FortiGate Security (NSE4), Cisco Firepower Next-Gen Firewall.

### IT Infrastructure Support | Military Service:

Jan 2024 – Mar 2025

- Managed IT infrastructure resolving 100+ technical support tickets and optimized network security.
- Maintained and optimized critical IT infrastructure to support daily operations.
- Created over 50 advanced reports and presentations related to management and planning.

### Bug Bounty Hunter | Hacker 1:

Oct 2023 – Dec 2023

- Discovered and reported 3 security vulnerabilities in real-world private programs.
- Earned Hall of Fame recognition in a security program for responsible disclosure.

### Cyber Security Intern 🌐 | SenseLearner:

Aug 2023 – Oct 2023

- Conducted 8 security assessments on company web assets (DNS, WHOIS, ASN analysis).
- Published 30+ articles on emerging security threats, tools, and best practices.

### Defensive Security Intern 🌐 | Excelerate:

Jun 2023 – Jul 2023

- Assisted in analyzing over 500 scan results, identifying critical vulnerabilities and mitigation strategies.
- Led weekly knowledge-sharing sessions with cybersecurity teams on threat intelligence.

### Certified Security Mentor 🌐 | Support:

Oct 2019 – Jun 2023

- Trained 3 classes of 50+ students in Network & Web Security, covering Linux and pen-testing.
- Delivered and recorded 60 hours of educational security content (online and offline).

## Certificates

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| • Cisco Certified Ethical Hacker                 | • TCM Practical Ethical Hacker          |
| • Security Blue Team Junior Analyst (BTJA)       | • OPSWAT Introduction to CIP            |
| • Fortinet Network Security Associate (NSE)      | • CCNAv7 Switching & Routing            |
| • Fortinet Certified Associate in Cybersecurity  | • C3SA Certified Cyber Security Analyst |
| • Cybrary Certified Information Security (CISSP) | • Google IT Support Specialization      |

## Education

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### Ain Shams University

Sep 2019 – Jul 2023

- B.Sc. in Computer Science - Information Systems
- Accumulative GPA: **3.31** with Honors (Graduation Project Grade: **A+**)
- Published research paper on blockchain that was chosen to be presented at ICICIS2023 by IEEE

## ***Technologies and Languages***

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- **Languages:** C/C++ , C#, Python, Bash Script, Java, JavaScript, PHP, SQL, Firebase
- **Tools:** BurpSuite, Metasploit, OWASP ZAP, Wireshark, Nmap, Ghidra, Valgrind
- **Frameworks:** .NET, Linux, Git, AWS, Oracle, Docker, Windows Active Directory
- **Blockchain:** Truffle framework, Solidity, Ganache, Web3 and MetaMask

## ***Projects***

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### **True Trace (GP) 🌐 | Blockchain Web App**

- Developed an anti-counterfeiting system, improving supply chain security for 100+ product entries.
- Implemented custom smart contracts for employee and company verification, enhancing data integrity.
- Built with Truffle, Solidity, Web3.js, and React, achieving 99.4% transaction accuracy in test env.

### **OWASP Immune 🌐 | Web Application**

- Applied a Web App Immune to OWASP Top 10 Vulnerabilities (Injection, BAC, Misconfigure, ...)
- Node.js App Included Verification & Authentication with Handled requests & endpoints

### **Security Algorithms 🌐 | C# Console App**

- Classical Encryption Algorithms (Ceaser Cipher, Vigenère, Rail Fence, Hill Cipher & Play Fair)
- Advanced Networking Algorithms (AES, DES, Diffie Hellman, RSA, ...)

### **N-Puzzle Solver 🌐 | C# Console App**

- Created a Tile puzzle game solved using A\* Algorithm with Priority Queue as search tree
- Measured the shortest path for final solution using Manhattan and Hamming distances

### **FOS Kernel Project 🌐 | Console OS**

- Implemented a simple OS with Working Sets and LRU Lists for loading pages in the main memory
- Heap Allocation for Page Files in addition to System Calls with Fault Handler

### **HTTP Messaging Server 🌐 | Browser Client Handler**

- Implemented a server that accepts multiple clients from different threads then connecting to them
- The server receives a request from the client then responds with the appropriate headers

## ***Honors and Awards***

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- Achieved a **C2 Proficiency** level on the EF SET Exam (English First Standard English Test).
- Ranked in the **Top 1%** on TryHackMe, earned **16 badges**, and completed **85 Rooms**.
- **Top 200** on CyberTalents solved **150+ challenges** with a world rank score: **10825**.
- Achieved **Top 3** placements in local and online global CTFs: CairoICT, CyCTF, and SynkCTF.