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# Michael Medhat

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Portfolio  
CyberTalents  
Tryhackme

## Experience

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### Bug Bounty Hunter | Hacker 1:

Jun 2023 – Now

- Conducted security assessments and penetration testing on multiple web apps and APIs.
- Performed targeted testing on authentication mechanisms, data handling, and input validation.
- Leveraged my expertise in network security, web application security, to identify weak points.

### Defensive Security Internship | Excelerate:

Jun 2023 – Jul 2023

- Engaged in knowledge-sharing sessions & discussing security trends with the cybersecurity team.
- Assisted in the analysis of scan results, prioritizing critical vulnerabilities, and recommendations.

### Certified Security Mentor | Support:

Oct 2019 – Jun 2023

- Taught Students Network & Web Security (Linux, Vulnerabilities, Pentesting)
- Hosting Capture The Flag Competition

## Certificates

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|--------------------------------|---|
| • TCM Practical Ethical Hacker | • C3SA Certified Cyber Security Analyst |
| • THM Advent of Cyber          | • PCAP Python Essentials                |
| • Cybersecurity Specialization | • Google Data Analytics                 |
| • CCNAv7 Switching and Routing | • Fortinet Network Security Associate   |
| • Front-End + Back-End & DB    | • OPSWAT ICIT                           |

## Projects

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### **True Trace (GP)** / Blockchain Web App

- Identify Fake Products Using Blockchain Solidity
- Using Truffle Framework With Web3.js

### **N-Puzzle Solver** / Console App

- Used A\* Algorithm with Priority Queue
- Calculated Manhattan & Ham Distances

### **OWASP Immune** / Web Application

- Immune to OWASP Top 10 (Injection, BAC, ...)
- Node.js App Including Verification & Authentication

### **FOS Kernel Project** / Console OS

- Working Sets & LRU with System Calls
- Heap Allocation with Fault Handler

### **Security Algorithms** / C# Console App

- Security Algorithms (Caesar, Hill Cipher, ...)
- Encryption Algorithms (AES, DES, RSA, ...)

### **HTTP Server** / Browser Client Handler

- Handling Client and Server Requests
- Used Multi-threaded Server

## Technologies and Languages

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- C, C++, C#, Java, PHP, Python, R, MATLAB, SQLite, MySQL
- BurpSuite, Metasploit, Nano, Vim, Nmap, Gobuster, Sqlmap, Ghidra, Valgrind
- Git, AWS, Oracle, Visual Studio Code, MongoDB, Docker, Unix
- .NET Framework, React, Node.js, Express, MVC with C#, Django, Android with Kotlin, Flutter

## Education

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### Ain Shams University

Sep 2019 – Jul 2023

- Bachelor of Computer Science in Information Systems
- GPA: 3.31 (Graduation Project Grade: **A**)

### San George College High School Heliopolis

Sep 2016 – May 2019