

# Youssef Mohamed Hussein

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Protofolio: <https://youssefmohussein.github.io/youssefmohussein/>

## Summary

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Highly motivated Computer Science student specializing in Cybersecurity, with a strong foundation in programming languages (C++, Java, JavaScript, Python) and web development (MERN stack). Passionate about cybersecurity and network security, evidenced by practical projects and certifications. Eager to apply problem-solving skills and technical expertise to contribute to innovative solutions in the cybersecurity domain.

## Education

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Misr Internantional University , BS in Computer Science

Sep 2023 - Jul 2027

## Technical-Skills

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- **Programming Languages:** C++, Java, JavaScript, Python
- **Web Development:**
  - **Front-end:** HTML, CSS, JavaScript
  - **Back-end:** Node.js, Express.js
  - **Database:** MongoDB
- **Software & Tools:** Git & GitHub, VS Code, MongoDB Compass, QT, JavaFX, SQL
- **Concepts & Methodologies:** OOP, Data Structures & Algorithms, Problem Solving, System Programming
- **Networking:** VLSM, VLANs, OSPF, EIGRP, DHCP, NAT, VPN
- **Soft Skills:** Teamwork, Communication, Event Organization, Team Leader

## Projects

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**Bank Management System** | C++, Problem Solving

- Developed a console app to handle accounts, deposits, withdrawals, and balance checks.
- Focused on structured programming and logical flow.

**Library Management System** | Java & JavaFX, OOP & GUI

- Built a GUI-based desktop app for managing books, members, and loans.
- Applied OOP concepts and event-driven logic using JavaFX.

**Word Frequency Counter** | C++ & Qt, Red-Black Tree

- Designed a GUI tool to count word frequency using a Red-Black Tree.
- Ensured efficient data handling and fast lookups.

### **E-Commerce Jewelry Store** | MERN Stack (HTML, CSS, JS, Node.js, MongoDB)

- Created a full-stack web store with auth, cart, admin panel, and product management.
- Used GitHub for version control and team collaboration.

### **Network Design Project** | Cisco Packet Tracer, Networking (OSPF, VPN, NAT)

- Built a network with VLANs, routing, NAT, DHCP, and VPN tunneling.
- Delivered documentation and verified full connectivity.

### **Password & Plate Checker** | C++, Algorithms (DP & Greedy)

- Created a password generator (DP) and plate validator (Greedy).
- Compared algorithms in a formal report using Overleaf.

### **Tic-Tac-Toe Game** | Python, Logic ASCII UI

- Built a console game with turn-based play and random computer moves.
- Used ASCII visuals and handled win/tie conditions.

## **Certificates**

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<b>Python Essentials 1</b> – Cisco	Issued Jun 2025
<b>Introduction to Cybersecurity</b> – Cisco	Issued Jun 2025
<b>Responsive Web Design</b> – FreeCodeCamp	Issued Apr 2025
<b>Cybersecurity Job Simulation</b> – Mastercard via Forage	Issued Feb 2025

## **Languages**

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<b>English</b>	Excellent
<b>French</b>	Fair
<b>Arabic</b>	Native

## **Volunteering**

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- **Head of Event Planning – IEEE MIU Club:** Led the planning and execution of technical events, workshops, and student engagement activities.
- **Public Relations Member – ACPC MIU Club:** Handled communications, outreach, and promotion of programming competitions and tech events.
- **Volunteer Member – Move MIU Club:** Participated in community service and student-led initiatives to support campus life and social causes.