

Mohamed Zaky

Computer Science Student | AI & Robotics Enthusiast

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Professional Summary

Motivated Computer Science student with solid Full-Stack development skills, specialising in Back-End development using C# and ASP.NET Core (.NET), RESTful APIs, and SQL Server, alongside Front-End experience with React.js. Strong problem-solving abilities and a passion for writing clean, scalable, and maintainable code. Seeking a Full-Stack or Back-End internship/junior role to contribute to real-world projects and grow as a professional software engineer.

Technical Skills

- **Programming Languages:** C, C++, Python, Java, C#, JavaScript
- **Frontend Technologies:** HTML5, CSS3, CSS, Responsive Web Design.
- **Backend Technologies:** ASP.NET Core MVC, ASP.NET Core Web API, RESTful APIs.
- **Database Technologies:** SQL, SQL Server, MYSQL
- **Data Science & AI Libraries:** NumPy, Pandas, Matplotlib, Seaborn
- **Development Tools:** Git, GitHub, Docker, Visual Studio

Experience

- **Full Stack .NET Developer Intern**, Digital Egypt Pioneers Initiative (DEPI) – Cairo, Egypt **Nov 025 – Present**

Key Responsibilities & Achievements:

- Developed responsive full-stack web applications using C#, .NET Core (MVC & Web API), HTML, CSS, and JavaScript.
- Designed and managed SQL Server databases, writing complex queries and ensuring data integrity.
- Practised unit testing, created functional documentation, and gained experience with Docker for containerization.
- Collaborating with team members using Git/GitHub for version control and agile development workflows.
- Currently working on a capstone project integrating Front-End, Back-End, and Database skills into a real-world application.

Projects

Campus Network Design – Helwan National University (HNU)

[Drive Link](#)

- Technologies: **Cisco Packet Tracer, VLAN, RIP v2, Subnetting, Telnet**
- Designed a scalable and secure campus network connecting multiple faculties; tested connectivity and troubleshooting; focused on network security and segmentation.

SmurfZone – Smart Parking System

[Github Repo](#)

- Technologies: **ESP32, Free RTOS, Queues, Mutex, Counting Semaphores**
- Developed a smart parking system handling real-time car detection, automatic gate control, dynamic slot management, and parking fee calculation; integrated an IoT dashboard and Telegram notifications; applied RTOS concepts (multi-tasking, inter-task communication, synchronisation) for reliable system operation.

CodeCare Hospital Website

[Github Repo](#)

- Technologies: **HTML5, CSS3, JavaScript, Git, GitHub, VS Code**
- Developed a responsive multi-page hospital website with patient & doctor interfaces, appointment booking, secure login system, and modern UI/UX; implemented interactive JavaScript features and enhanced responsiveness and accessibility.

Education

Helwan University — B.Sc. in Computer Science and Artificial Intelligence.

Sept 2023 – Present

- Relevant Courses :
 - Data Structures and Algorithms
 - Database Systems (SQL Server)
 - Artificial Intelligence (AI)
 - Machine Learning (ML)

Courses & Certificates

- **Sprints x Microsoft** Summer Camp - AI and Machine Learning
 - **Sprints x Microsoft** Summer Camp - Web Development
 - **Huawei** Certified ICT Associate (HCIA) – AI Learning Course
 - **Huawei** Certified ICT Professional (HCIP) – AI Learning Course
 - **ALX Arabia** – AI Career Essentials
 - **ITIDA** Freelance Course
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Volunteering Experience

Head of Electrical Robotics Committee - IEEE BUSB (Benha University Student Branch) *Jan 2026 – Present*

- Leading the Electrical Robotics Committee, overseeing technical activities and team coordination.
- Managing workshops, training sessions, and hands-on robotics projects.

Training Leader – YLY (Ministry of Youth and Sports, Egypt) *Jul 2025 – Present*

- Led youth training sessions focused on leadership, teamwork, and personal development.
- Provided mentorship and contributed to developing effective training content in collaboration with team members.

Head of Logistics – EBSM Helwan *feb2025 – Sep 2025*

- Supported event planning and logistics within the Organizing and Relations Committee.
 - Handled resource coordination, internal communication, and venue preparation for youth initiatives.
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Soft Skills

- Teamwork and Collaboration
 - Effective Communication
 - Leadership and Initiative
 - Problem-Solving
 - Critical Thinking
 - Adaptability and Flexibility
 - Time Management
 - Event Planning and Organisational Skills
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Languages

- **Arabic:** Native
- **English:** Fluent