

# Omar Reda Elshaer

## Software Engineering Student

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[LinkedIn](#) | [GitHub](#)

## Career Objective

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Motivated Software Engineering student with hands-on experience in full-stack development, data engineering, and student community leadership. Seeking opportunities to apply technical and problem-solving skills in real projects.

## Education

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### **Bachelor of Science in Software Engineering**

Alamein International University – Faculty of Computer Science & Engineering

Aug 2024 – Present

Expected Graduation: 2028

## Professional Experience

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### **Head of Web & Content – AIU Voice Club**

**Oct 2025 – Present**

- Lead web and content creation; coordinate student media initiatives.

### **Web Track Instructor & Member – IEEE AIU Student Branch**

**Feb 2025 – Present**

- Instructor & Mentor for Web Track at IEEE AIU SB; manage web projects.
- Delivered structured training sessions on web fundamentals to +20 students.

### **Microsoft Data Engineer Trainee – Digital Egypt Pioneers Initiative**

**Jun 2025 – Present**

- Completed multiple courses and project in SQL, Azure, big data, and AI for data engineering.

### **Software Tester – Admission Platform (Alamein International University)**

**Jun 2025 – Sep 2025**

- Tested the university's admission system to ensure functionality, reliability, and user experience.

### **Python Programming– National Telecommunication Institute (NTI) Jul 2025 – Aug 2025**

- 120 Hours (90 technical + 30 freelancing); Certificate achieved with 91.5%.

### **Scientific & Technology Committee Member – AIU Student Union**

**Nov 2024 – Present**

- Participate in organizing student tech events and activities.

# Projects

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**O-Easy-TA – Academic Affairs Management System | Developer | Python | Web Integration**  
*Jan 2025 – May 2025*

- Developed backend using Python and SQLite3; integrated with web platform for real-time data sharing.

## Web Development Projects:

- IEEE AIU SB Website | *Feb 2025 – Present*
- AIU Voice Club Website | *Oct 2025 – Present*
- Soul Art Hub Website | *Mar 2025 – Aug 2025*
- Alamein University Transportation System | *Jul 2025 – Aug 2025*

# Skills

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## Programming:

Java, C++, C#, Python, PHP, JavaScript, TypeScript, R, SQL, HTML5, CSS3

## Frameworks/Tools:

React.js, Node.js, Express.js, MERN Stack, PyQt, SQLite3, MongoDB, Firebase, Microsoft Azure, Git, RESTful APIs, Data Pipelines, Next.js, JavaFX, Bootstrap

## Web & Software:

Full-Stack Web Development, Front-End Design, Software Testing, Database Management, AI & Data Engineering

**Soft Skills:** Team Leadership, Problem Solving, Creativity, Time Management, Critical Thinking, Adaptability, Communication, Continuous Learning

## Languages:

Arabic (Native), English (Professional)

# Certifications & Courses

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## Digital Egypt Pioneers Initiative (DEPI):

- Microsoft Data Engineer (Ongoing), Capstone Project
- Prompt Engineering, Intro to Data Engineering, Programming Essentials, SQL & Database Management, Advanced Python, Data Pipelines, Big Data Processing, Microsoft Azure Data Engineer Associate, Deployment, AI for Data Engineers

## Coursera & Online:

- Microsoft Full-Stack Developer Professional Certificate
- Object-Oriented Programming in Java – UC San Diego & Multiple Platforms
- Object-Oriented Programming in C++ – MaharaTech
- Advanced Python for Data Engineering
- SQL for Data Science with R – IBM
- Introduction to R Programming – IBM
- Ordered Data Structures – University of Illinois Urbana-Champaign
- Inferential Statistics – Duke University
- Introduction to Logic for Computer Science – University of Leeds

## National Telecommunication Institute (NTI):

- Summer Training Certificate (Python Programming) | 91.5%

## Competitions & Awards:

- **ROV Egypt Regional Competition** – Certificate of Participation (April 2025) | Software Team Member
- **ECPC Problem Solving** – Arab Academy for Science and Technology (2024)
- **Young Innovator National Competition** – 2nd Place in Web Design (2021)

# Extracurricular & Volunteering

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- IEEE AIU Student Branch: Web Track founder, instructor, and student mentor.
- Organized and contributed to multiple tech and content events through AIU Student Union and Voice Club.
- Active participant in robotics and innovation competitions.