Omar Reda Elshaer

Software Engineering Student

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Career Objective

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

Bachelor of Science in Software Engineering
Alamein International University – Faculty of Computer Science & Engineering
Aug 2024 – Present
Expected Graduation: 2028

Professional Experience

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

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

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

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

- 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.