## AHMED OSMAN

# **Software Engineer**

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AhmedOsmanDev

Egypt

### **EXPERIENCE**

### Junior Backend Developer IPMagiX

iii Oct. 2024 - Present

#### eZagel (WhatsApp Service)

- Two-way communication between sender and recipient.
- Sending text, image, ..., and marketing template messages.

### eZagel (SMS Service)

- Enhancing security vulnerabilities with the penetration testing team.
- Proactive secure code development to protect against DoS attacks.

### Back-End Engineer Axapta IT

iii Jul. 2022 - Mar. 2025

Remote

#### UnifiedTalk

- Elevated system performance by 40% through local memory, Redis, and SQLite caching strategies.
- Incorporated SignalR for real-time chat and notifications, boosting user engagement with timely updates and alerts.
- Integrated PayPal gateway for secure payment processing.
- Successfully implemented a consumer-producer approach using RabbitMQ, enhancing system efficiency and scalability.
- Developed a chat app for back-office users to communicate with customers via WhatsApp, Facebook, and Telegram in one system.

- Created Azure Storage account and initiated 10+ containers.
- Increased API security by using Shared Access Signature.
- Architected a robust microservices infrastructure, increasing system scalability and flexibility by 30%.
- Refactored legacy system and coded ADO.NET Data Provider.
- Decreased development costs by 70% using Docker to deploy SQL Server, Redis, Seq, .NET, and Python on a single Linux machine.

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- Validated created accounts with Multi-Factor Authentication.
- Localized messages and names in 3 languages to enhance user experience and accessibility.
- Built a search engine with Python and Hugging Face, using Qdrant and Redis vector databases.

### Software Engineer Freelance

Jul. 2022 - Present

Remote

**Upwork Freelance Project** - API bug fixes and Azure deployment. **ElmourchidiTube** – Firebase function that gets the latest videos from YouTube subscriptions and sends them to a telegram bot.

Mustafa Kamel Portfolio - eCommerce Web App for UX designer.

### **PROJECTS**

### Learning Lantern (LMS) Graduation Project

• Allows institutes and universities to get their learning portal, with integrated and easy-to-use cloud services and content-creating tools for leveraging the online education processes.

### **EDUCATION**

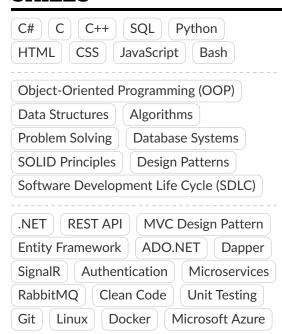
B.Sc. Degree in Bachelor Degree of Computers and Information Majoring in Computer Science Assiut University

## **VOLUNTEERING**

Instructor & Mentor ICPC Assiut University Community

- The main goal of this community is to improve the programming, problem-solving, and algorithmic skills of all students in Egypt.
- Competed a lot in programming competitions like ECPC and enjoyed participating with my colleagues, students, and mentors.

### SKILLS



### CERTIFICATIONS



4th Place in The 2019 Assuit Collegiate **Programming Contest** 



Succeeding in Web Development: Full Stack and Front End



**Cloud Computing Basics (Cloud 101)** 



**Database Fundamentals** 



The Bits and Bytes of Computer Networking



**Operating Systems: Becoming a Power** User