AHMED OSMAN

Software Engineer

@ ahmed.osman@tuta.io 📱 +20 120 873 1604 AhmedOsmanDev 📍 Egypt

EXPERIENCE

Junior Backend Developer **IPMagiX**

📅 Oct. 2024 – Present 📍 Remote

eZagel (SMS Service)

- Two-way communication between sender and recipient.
- Sending text, image, video, audio, document, and marketing template messages.
- Automatic senders by different phone numbers.

Back-End Engineer **Axapta IT**

📅 Dec. 2023 – Present 📍 Remote

- Increased API security by using Shared Access Signature.
- Validated created accounts with Multi-Factor Authentication.
- Elevated system performance by 40% through local memory, Redis, and SQLite caching strategies.
- Localized messages and names in 3 languages to enhance user experience and accessibility.
- Incorporated SignalR for real-time chat and notifications, boosting user engagement with timely updates and alerts.
- Integrated PayPal gateway for secure payment processing.
- Developed a chat app for back-office users to communicate with customers via WhatsApp, Facebook, and Telegram in one system.
- Built a search engine with Python and Hugging Face, using Qdrant and Redis vector databases.
- Decreased development costs by 70% using Docker to deploy SQL Server, Redis, Seq, .NET, and Python on a single Linux machine.

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.
Printing System – Windows form application for printing company.

PROJECTS

Fathy.Swagger **Open-Source**

NuGet package for efficiently adding swagger in Web APIs.

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.
- Built the Authentication and Authorization service using ASP.NET Core Identity, JWT Bearer, and Email Sender service.
- Accomplished a to-do feature using ASP.NET Core Web API and video services using SignalR, supporting 10+ concurrent users.
- Deployed Docker containers using Azure DevOps on Azure App Service. Stored files and videos on Azure Blob Storage.

EDUCATION

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

📅 Sep. 2018 – Jun. 2022 📍 Assiut, Egypt

VOLUNTEERING

Instructor & Mentor **ICPC Assiut University Community**

📅 Oct. 2018 – Jun. 2022 📍 Assiut, Egypt

- 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

C# | C | C++ | SQL | Python
HTML | CSS | JavaScript | Bash

Object-Oriented Programming (OOP)
Data Structures | Algorithms
Problem Solving | Database Systems
SOLID Principles | Design Patterns
Software Development Life Cycle (SDLC)

.NET | REST API | MVC Design Pattern
Entity Framework | ADO.NET | Dapper
SignalR | Authentication | Microservices
Clean Code | Unit Testing | NoSQL
Git | Linux | Docker | Microsoft Azure

CERTIFICATIONS

</> **4th Place in The 2019 Assiut 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**