AHMED MOHAMED FATHY OSMAN

Software Engineer

@ SWE.Ahmed.Osman@gmail.com
in SWE-Ahmed-Osman
📞 +20 120 873 1604
○ SWE-Ahmed-Osman
📍 Cairo, Egypt
Ⓗ AhmedFathyDev

EDUCATION

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

Assiut University

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

EXPERIENCE

.NET Developer

Freelance

📅 Jul. 2022 – Present   📍 Assiut, Egypt

- Worked as a Freelancer during and after Military Service to improve my skills and raise my experience.
- Integrated my educational knowledge with industry experience to start my journey in the software industry.

PROJECTS

Learning Lantern

Graduation Project – Excellent – ○ Source Code

📅 Jan. 2022 – Jul. 2022

- A complete Learning Management System that allows institutes and universities to get their learning portal easily, with integrated and easy-to-use cloud services and content-creating tools for leveraging the online education processes.
- Took ownership to design the database and normalized it to be as optimized as possible.
- Built the Authentication and Authorization service using ASP.NET Core Identity, JWT Bearer, and Email Sender service.
- Injected Swagger service to test and document my API and implemented its security definition for authentication.
- Designed the app first in the monolithic architecture and then upgraded it to the microservices architecture.
- Developed Ocelot API Gateway and rebuilt Authentication service using MediatR pattern. Structured development plans for services.
- Accomplished To Do, Text Lessons using ASP.NET Core Web API and Video services using ASP.NET Core SignalR and WebRTC.
- Tested the services and the APIs using Postman and Unit Testing.
- Deployed the database on Azure SQL Database and the application on Azure App Service.
- Used Azure DevOps for the deployment of our Docker containers. Stored files and videos on Azure Blob Storage.

Mustafa Kamel Portfolio

Freelance – ○ Source Code

📅 Sep. 2022 – Oct. 2022

SUMMARY

- One year of experience in Back-End Development and building web applications.
- Specialist in .NET Core Frameworks. Satisfactory background working with Angular, React, and Vue.js on multiple projects.
- Strong knowledge of computer science, good in Object-Oriented Programming, Data Structures, Algorithms, Database Systems, Design Patterns, and Problem-Solving.
- Competed a lot in college in programming competitions and enjoyed participating with my colleagues and mentors.
- Passionate about learning .NET, Back-End technologies, DevOps, Web 3, Blockchain, Linux, Virtualization, and Cloud Computing.
- Detailed-Oriented, responsible, committed engineer, with a get-it-done, on-time, and high-quality product spirit. Self-quick learner, self-motivated, and social.

SKILLS

Hard Skills

C / C++   C#   Java   Python   Bash
SQL   HTML   CSS   JavaScript

Object-Oriented Programming (OOP)
Data Structures   Algorithms
Design Patterns   Problem Solving
Database Systems   Operating Systems
Distributed Database Systems
Computer Networking   Security
Embedded Systems   Cloud Computing
Software Engineering Practices
Computer Organization and Architecture

.NET Core   .NET Framework
REST APIs   MVC Design Pattern
WebRTC   WebSocket
Unit Testing   Microservices
JSON Web Token (JWT)
Docker   Heroku   Microsoft Azure
Clean Code   Git   Unix / Linux

- Learned more about environment variables and dependency injection and used it professionally.
- Injected the swagger service implemented its security definition for authentication and used it to test and document my API.
- Approached code first and used Entity Framework Core (ORM) for database migrations with SQL Server and hosted my database on Azure SQL Database.
- Used LINQ for querying and data manipulation and accomplished complex mapping using Automapper.
- Applied ASP.NET Core Identity with JSON Web Token for authentication and authorization.
- Interacted with files and videos and stored them on Azure Blob Storage service and deployed the application on Azure App Service.

Fathy.Common
Open-Source – Source Code

📅 Oct. 2022 – Present

- An open-source project I made to facilitate developing the most common .NET services for developers and let them be free to customize it, with the best practices.
- Implemented Swagger definitions, Email sender, Authentication and JWT services, and Azure Blob Storage service.

Ahl AlQuran Academy
Distributed Database Course – Source Code

📅 Sep. 2021 – Jan. 2022

- A platform for memorizing and reviewing the Noble Quran and learning the provisions of intonation and readings.
- Designed the database, after that mapped the relations, then normalized and implemented them on MySQL Server.

Runner Wheel 3D
Computer Animation Course – Source Code

📅 Dec. 2021 – Jan. 2022

- An endless runner game for Android and Windows.
- Designed the game on Unity Engine and developed by C#.

VOLUNTEER EXPERIENCE

Mentor & Contestant
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.

Ambassador
Information Technology Institute (ITI)

📅 Mar. 2021 – Oct. 2021   📍 Assiut, Egypt

A leading national institute in ICT human capacity-building. Established with the Egyptian MCIT.

Linux & Embedded Systems Instructor
Tec Youth

📅 Nov. 2020 – Jun. 2022   📍 Assiut, Egypt

Preparing youth cadres who are aware of technological development and keep abreast of the labor market. Youth Supporting Youth.

Soft Skills

Presentation Skills | Interpersonal Skills
Communication | Negotiation | Creativity
Public Speaking | Active Listening
Project Management | Teamwork
Time Management | Risk-Taking

CERTIFICATIONS

- **4th Place in The 2019 Assuit Collegiate Programming Contest**
- **23th Place in The 2020 Upper Egypt Collegiate Collegiate Programming Contest**
- **129th Place in The 2019 Egyptian Collegiate Programming Contest**
- **Database Fundamentals**
- **Computer Network Fundamentals**
- **Programming Foundations: Databases**
- **CompTIA Network+ (N10-007)**
- **Succeeding in Web Development: Full Stack and Front End**
- **Technical Support Fundamentals**
- **The Bits and Bytes of Computer Networking**
- **Operating Systems: Becoming a Power User**
- **System Administration and IT Infrastructure Services**
- **Cloud Computing Basics (Cloud 101)**
- **English for Career Development**
- **Speak English Professionally: In Person, Online & On the Phone**

LANGUAGES

Arabic
Native or bilingual proficiency

English
Professional working proficiency