

# AHMED MOHAMED FATHY OSMAN

## Software Engineer

@ SWE.Ahmed.Osman@gmail.com  
SWE-Ahmed-Osman

+20 120 873 1604

Cairo, Egypt

SWE-Ahmed-Osman

## EDUCATION

B.Sc. in Computer Science

Assiut University

Sep. 2018 – Jul. 2022

Assiut, Egypt

.NET Developer Diploma

Information Technology Institute (ITI)

Jun. 2021 – Aug. 2021

Assiut, Egypt

## EXPERIENCE

Software Engineer

Freelance

Jul. 2022 – Present

Assiut, Egypt

I work as a Freelancer during my Military service vacations to improve my skills and raise my experience. Integrated my educational knowledge with industry experience to start my journey in the software industry.

Mentor & Contestant

ICPC Assiut University Community

2018 – 2022

Assiut, Egypt

The main goal of this community is to improve the problem-solving skills of all students by participating in programming competitions.

Ambassador

Information Technology Institute (ITI)

2021 – 2022

Assiut, Egypt

A leading national institute in ICT human capacity-building was established with the Egyptian Ministry of Communications and Information Technology.

## PROJECTS

Fathy.Common

Open-Source

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.

## ABOUT

- With over 1 year of experience in Back-End Development and industry experience in building websites and web applications. Specialist in .NET Core Frameworks. Satisfactory background working with Angular, React, and Vue.js on multiple projects.
- Have powerful computer science knowledge and I am eager to learn more concepts and dive deep into computer science tracks. Good in Object-Oriented Programming, Data Structures, Algorithms, Database Systems, Design Patterns, and Problem-Solving skills. Practiced competitive programming a lot in college and enjoyed competing with my colleagues and mentors and participating in many programming competitions.
- Detailed-Oriented, responsible, committed engineer, with a get-it-done, on-time, and high-quality product spirit. Self-quick learner, self-motivated, and social.

## MY LIFE PHILOSOPHY

«إني لأكتره أن أرى أحدكم سبئلاً لا في  
عمل دُنْيا ولا في عمل آخره.»

## CERTIFICATIONS



ICPCID



Database Fundamentals



Computer Network Fundamentals



Cloud Computing Basics (Cloud 101)



Technical Support Fundamentals



The Bits and Bytes of Computer Networking



Operating Systems: Becoming a Power User



English for Career Development

---

## Mustafa Kamel Portfolio

### Freelance

📅 Oct. 2022

- Learned more in this project about environment variables and dependency injection and used it professionally.
- I injected the Swagger service implemented its security definition for authentication and used it to test and document my API.
- Approached code first, used Entity Framework Core (ORM) for database migrations with SQL Server, and hosted my database on Azure SQL Database.
- I used LINQ for querying and data manipulation.
- Applied ASP.NET Core Identity with JSON Web Token for authentication and authorization. Accomplished complex mapping using AutoMapper.
- Deployed my app on Azure App Service. Interacted with files (videos, images, and PDFs) and stored them on Azure Blob Storage service.

---

## Learning Lantern

### Graduation Project

📅 Jan. 2022 – Jul. 2022

- An online educational environment, with integrated and easy-to-use cloud services and content-creating tools for leveraging the online education processes.
- Improved from my role as Project Team Leader my time management, communication, and presentation skills. Contributed to designing the database, then normalized it to be as optimized as possible.
- Built the Authentication service using the JWT Bearer using the MediatR pattern. Developed the app in the Monolithic architecture, then we upgraded it to the Microservices architecture. Implemented Ocelot API Gateway.
- Accomplished To Do, Text Lessons, and Video services. Tested our app with Unit Testing.
- Managed our database on Azure SQL Database and our app on Azure App Service and used Azure Blob Storage to store our files and videos and Azure DevOps for the deployment of our Docker containers.

---

## Book Store Web API Application

📅 Jan. 2022 – Feb. 2022

- Rebuilt and upgraded it with .NET 6 and Angular 13.2.2 For learning.
- Added ASP.NET Identity Core framework and used Entity Framework Core to interact with the SQL Server database.

---

## Ahl AlQuran Academy

📅 Sep. 2021 – Jun. 2022

A platform for memorizing and reviewing the Noble Quran and learning the provisions of intonation and readings. Participated in designing the database. Mapped and normalized the entities, and implemented them on MySQL Server.

---

## SKILLS

C#



ASP.NET Core MVC

ASP.NET Core Web API

ASP.NET Core SignalR

Entity Framework Core

Language Integrated Query (LINQ)

JSON Web Token (JWT)

Microsoft Azure

Problem Solving



Data Structures



Algorithms



SQL



Object-Oriented Programming (OOP)

Database Systems

Clean Code

Software Engineering Practices

Unit Testing

Microservices

Cloud Computing

Git

Unix / Linux

---

## LANGUAGES

Arabic



English



---

## REFEREES

Are available upon request.