

# AHMED MOHAMED FATHY OSMAN

## Software Engineer

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📍 Asyut, Egypt  
👤 AhmedFathyDev

### EDUCATION

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

Assiut University

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

### EXPERIENCE

Back-End Engineer

Axapta. Ltd

📅 Dec. 2023 – Present      📍 Remote

Masareefi (ERP System)

- Programmed REST APIs with C# 12 and .NET 8. Organized sprints and tasks on Jira and applied Agile engineering practices.
- Created Azure Storage account and initiated containers.
- Increased API security by using Shared Access Signature (SAS) to make an expiration duration for Blobs and Containers.
- Validated created accounts with Multi-Factor Authentication (MFA).
- Elevated system performance through the implementation of local memory caching, Redis storage, and SQLite caching strategies.
- Architected a robust microservices infrastructure to enhance scalability, flexibility, and overall system efficiency.
- Restructured endpoints by using reflection to improve code usability, reduce complexity, and increase efficiency.
- Localized the messages and names to the user display language.
- Refactored legacy system and coded ADO.NET Data Provider.

.NET Engineer

Freelance

📅 Jul. 2022 – Present      📍 Remote

- 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.

Mustafa Kamel Portfolio      📄 Source Code      Sep. 2022 – Oct. 2022

- 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.

### SUMMARY

- Two years of experience in web application development using .NET Core Framework.
- Proficient in Object-Oriented Programming, Data Structures, Algorithms, Design Patterns, and Problem Solving.
- Eager learner passionate about advancing skills in .NET, Back-End technologies, DevOps, and emerging trends like Web 3, Blockchain, Linux, and Cloud Computing.
- Detail-oriented and committed engineer known for on-time delivery of high-quality products. Self-motivated and quick learner.

### SKILLS

#### Hard Skills

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

Object-Oriented Programming (OOP)  
Data Structures   Algorithms  
SOLID Principles   Design Patterns  
Database Systems   Computer Networking  
Cloud Computing   Clean Code   Security  
Operating Systems   Distributed Databases  
Software Development Life Cycle (SDLC)

.NET Core   .NET Framework  
MVC   Web API   Razor Pages   Identity  
SignalR   WebSockets   Server-Sent Events  
Long Polling   Real-Time Communications  
SQL Server   Azure SQL Database  
NoSQL Databases   ADO.NET   Redis  
Language Integrated Query (LINQ)  
Entity Framework Core   Microsoft Azure

REST APIs   MVC Design Pattern  
Bearer Authentication   JSON Web Token  
Git   Linux   Docker   Microservices  
Unit Testing   API Testing   ChatGPT

#### Soft Skills

# PROJECTS

## Learning Lantern

**Graduation Project – Excellent – [Source Code](#)**

Jan. 2022 – Jun. 2022 Asyut, Egypt

- 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.
- 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.
- 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.

## Fathy.Common

**Open-Source – [Source Code](#)**

Oct. 2022 – Present Asyut, Egypt

- 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 Asyut, Egypt

- 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 Asyut, Egypt

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

# VOLUNTEER EXPERIENCE

## Instructor & Mentor

**ICPC Assiut University Community**

Oct. 2018 – Jun. 2022 Asyut, Egypt

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

Critical Thinking

Problem Solving

Communication

Interpersonal Skills

Presentation Skills

Public Speaking


Teamwork

Creativity

Active Listening

# 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**

 **Succeeding in Web Development: Full Stack and Front End**

 **Cloud Computing Basics (Cloud 101)**

 **Database Fundamentals**

 **Programming Foundations: Databases**


 **Redis | RU101: Introduction to Redis Data Structures**

 **Computer Network Fundamentals**

 **CompTIA Network+ (N10-007)**


 **Technical Support Fundamentals**

 **The Bits and Bytes of Computer Networking**

 **Operating Systems: Becoming a Power User**

 **System Administration and IT Infrastructure Services**

 **English for Career Development**

 **Speak English Professionally: In Person, Online & On the Phone**

# LANGUAGES

Arabic  
Native

English  
B2