

# 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

Kaizen

- 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.
- Tested services and APIs using Postman and Swagger.

Software 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.

## PROJECTS

Learning Lantern

Graduation Project – Excellent – 📄 Source Code

📅 Jan. 2022 – Jun. 2022      📍 Asyut, Egypt

## 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.
- 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++JavaPythonBash

SQLHTMLCSSJavaScript

Object-Oriented Programming (OOP)

Data StructuresAlgorithms

Design PatternsDatabase Systems

Computer NetworkingOperating Systems

Software Engineering Practices

.NET Core.NET Framework

Language Integrated Query (LINQ)

Entity Framework CoreSQL Server

Azure SQL DatabaseAzure Storage

REST APIsMVC Design Pattern

Bearer AuthenticationJSON Web Token

WebRTCWebSocketMicroservices

DockerHerokuMicrosoft Azure

Unit TestingAPI TestingChatGPT

JSON & XMLRedisSwagger

Clean CodeGitUnix / Linux

### Soft Skills

- 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.
- Led the project team and the back-end team. Kept encouraging my teammates in all phases to do as best as they could.
- 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 services and 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.

## 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.

Communication Skills

Interpersonal Skills

Presentation Skills

Problem Solving Skills

Public Speaking

Active Listening

Critical Thinking

Creativity

Teamwork

## CERTIFICATIONS



4th Place in The 2019 Assuit Collegiate Programming Contest



23th Place in The 2020 Upper Egypt 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 or bilingual proficiency

### English

Professional working proficiency