

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# Java C C++ 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

.NET Core .NET Framework
Language Integrated Query (LINQ)
Entity Framework Core SQL Server
Azure SQL Database Azure Storage

REST APIs MVC Design Pattern
Bearer Authentication JSON Web Token
WebRTC WebSocket Microservices
Docker Heroku Microsoft Azure
Unit Testing API Testing ChatGPT

- 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.

JSON & XML

Redis

Swagger

Clean Code

Git

Unix / Linux

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 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

LANGUAGES

Arabic

Native or bilingual proficiency

English

Professional working proficiency