

AHMED MOHAMED FATHY OSMAN

Back-End 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.
- Validated created accounts with Multi-Factor Authentication (MFA).
- Restructured endpoints by using reflection to improve code usability, reduce complexity, and increase efficiency.
- Increased performance by using local caching and Redis storage.
- Localized the messages and names to the user display language.

Back-End 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.
- 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

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

C++

Java

Python

Bash

SQL

HTML

CSS

JavaScript

Object-Oriented Programming (OOP)

Data Structures

Algorithms

Design Patterns

Database Systems

Computer Networking

Operating Systems

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

JSON & XML

Redis

Swagger

Clean Code

Git

Unix / Linux

Soft Skills

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.
- 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.
- 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