## AHMED MOHAMED FATHY OSMAN

# **Software Engineer**

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Asyut, EgyptAhmedFathyDev

## **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.
- 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.
- 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.

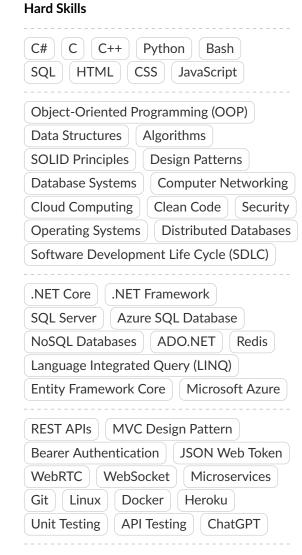
Mustafa Kamel Portfolio Source Code Sep. 2022 – Oct. 2022

- 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**

- One year of experience in Back-End Development and building web applications.
   Specialist in .NET Core Frameworks.
- 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, and committed engineer with a get-it-done, on-time, and high-quality product spirit. Self-quick learner, self-motivated, and social.

## **SKILLS**



**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**

iii 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 or bilingual proficiency

#### English

Professional working proficiency