# AHMED MOHAMED FATHY OSMAN

# **Software Engineer**

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## **EDUCATION**

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

#### **Assiut University**

iii Sep. 2018 - Jul. 2022

Assiut, Egypt

## **EXPERIENCE**

### Software Engineer

#### **Freelance**

Jul. 2022 - Present

Assiut, Egypt

- 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.

## **PROJECTS**

#### Learning Lantern

Graduation Project - Excellent - Source Code

🛗 Jan. 2022 - Jul. 2022

- 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.
- Tested the services and the 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.

## Mustafa Kamel Portfolio

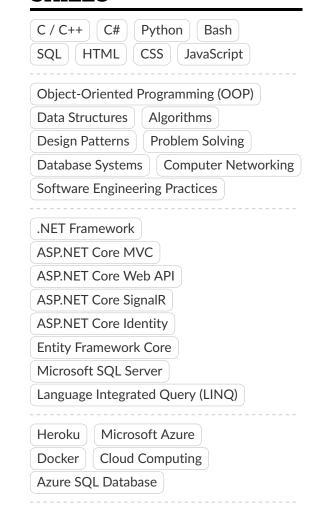
Freelance - Source Code

iii Sep. 2022 - Oct. 2022

# **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.
- Competed a lot in college in programming competitions and enjoyed participating with my colleagues and mentors.
- 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**



- 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.

#### Fathy.Common

### Open-Source - Source Code

iii Oct. 2022 - Present

- 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

i Sep. 2021 - Jan. 2022

- 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

i Dec. 2021 - Jan. 2022

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

## **VOLUNTEER EXPERIENCE**

#### Mentor & Contestant

#### **ICPC Assiut University Community**

iii Oct. 2018 - Jun. 2022

Assiut, Egypt

The main goal of this community is to improve the programming, problemsolving, and algorithmic skills of all students in Egypt.

#### **Ambassador**

## Information Technology Institute (ITI)

iii Mar. 2021 - Oct. 2021

Assiut, Egypt

A leading national institute in ICT human capacity-building. Established with the Egyptian MCIT.

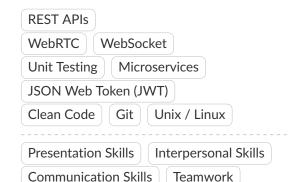
# Linux & Embedded Systems Instructor

### **Tec Youth**

iii Nov. 2020 - Jun. 2022

Assiut, Egypt

Preparing youth cadres who are aware of technological development and keep abreast of the labor market. Youth Supporting Youth.



## CERTIFICATIONS

- 4th Place in The 2019 Assuit Collegiate **Programming Contest**
- 23th Place in The 2020 Upper Egypt Collegiate Collegiate Programming Con-
- 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
- The Bits and Bytes of Computer Networking

**Technical Support Fundamentals** 

- **Operating Systems: Becoming a Power** User
- System Administration and IT Infrastructure Services
- Cloud Computing Basics (Cloud 101)
- **English for Career Development**
- Speak English Professionally: In Person, Online & On the Phone

## LANGUAGES

#### Arabic

Native or bilingual proficiency

#### **English**

Professional working proficiency