AHMED MOHAMED FATHY OSMAN

Software Engineer

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in SWE-Ahmed-Osman   ⌂ SWE-Ahmed-Osman   ⊞ AhmedFathyDev

EDUCATION

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

Assiut University

📅 Sep. 2018 – Jul. 2022   📍 Assiut, Egypt

EXPERIENCE

Software Engineer

Freelance

📅 Jul. 2022 – Present   📍 Assiut, Egypt

- I work as a Freelancer during and after Military service to improve my skills and raise my experience.
- I integrate my educational knowledge with industry experience to start my journey in the software industry.

PROJECTS

Learning Lantern

Graduation Project – Excellent

📅 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.
- Contributed with my team to design the database, then 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 after that 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.
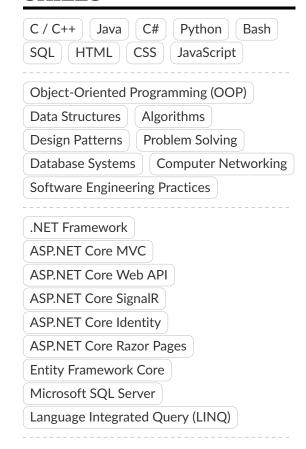
Mustafa Kamel Portfolio

Freelance

📅 Sep. 2022 – Oct. 2022

SUMMARY

- With over 1 year of experience in Back-End Development and industry experience in building websites and web applications.
- Specialist in .NET Core Frameworks. Satisfactory background working with Angular, React, and Vue.js on multiple projects.
- Have powerful computer science knowledge and I am eager to learn more concepts and dive deep into computer science tracks.
- Good in Object-Oriented Programming, Data Structures, Algorithms, Database Systems, Design Patterns, and Problem-Solving.
- Practiced competitive programming a lot in college and enjoyed competing with my colleagues and mentors and participating in many programming competitions.
- 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

`C / C++` `Java` `C#` `Python` `Bash`
`SQL` `HTML` `CSS` `JavaScript`

`Object-Oriented Programming (OOP)`
`Data Structures` `Algorithms`
`Design Patterns` `Problem Solving`
`Database Systems` `Computer Networking`
`Software Engineering Practices`

`.NET Framework`
`ASP.NET Core MVC`
`ASP.NET Core Web API`
`ASP.NET Core SignalR`
`ASP.NET Core Identity`
`ASP.NET Core Razor Pages`
`Entity Framework Core`
`Microsoft SQL Server`
`Language Integrated Query (LINQ)`

- 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

📅 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

📅 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

📅 Dec. 2021 – Jan. 2022

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

VOLUNTEER EXPERIENCE

Mentor & Contestant
ICPC Assiut University Community

📅 Oct. 2018 – Jun. 2022   📍 Assiut, Egypt

The main goal of this community is to improve programming, problem-solving, and algorithmic skills of all students in Egypt.

Ambassador
Information Technology Institute (ITI)

📅 Mar. 2021 – Oct. 2021   📍 Assiut, Egypt

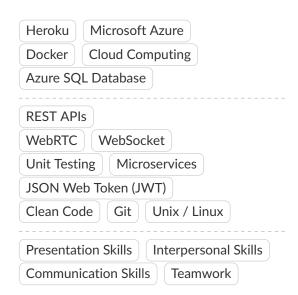A leading national institute in ICT human capacity-building. Established with the Egyptian MCIT.

Linux & Embedded Systems Instructor
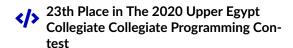**Tec Youth**

📅 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.

Heroku Microsoft Azure
Docker Cloud Computing
Azure SQL Database

REST APIs
WebRTC WebSocket
Unit Testing Microservices
JSON Web Token (JWT)
Clean Code Git Unix / Linux

Presentation Skills Interpersonal Skills
Communication Skills Teamwork

CERTIFICATIONS

4th Place in The 2019 Assuit Collegiate Programming Contest

23th Place in The 2020 Upper Egypt Collegiate 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

Speak English Professionally: In Person, Online & On the Phone

LANGUAGES

Arabic

English