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 – 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.
- Validated created accounts with Multi-Factor Authentication (MFA).
- Elevated system performance through the implementation of local memory caching, Redis storage, and SQLite caching strategies.
- Architected a robust microservices infrastructure to enhance scalability, flexibility, and overall system efficiency.
- Restructured endpoints by using reflection to improve code usability, reduce complexity, and increase efficiency.
- 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.
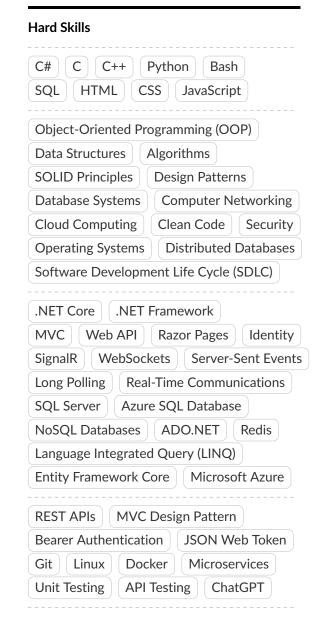
Mustafa Kamel Portfolio ⚬ Source Code Sep. 2022 – Oct. 2022

- 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

- Two years of experience in web application development using .NET Core Framework.
- Proficient in Object-Oriented Programming, Data Structures, Algorithms, Design Patterns, and Problem Solving.
- Eager learner passionate about advancing skills in .NET, Back-End technologies, DevOps, and emerging trends like Web 3, Blockchain, Linux, and Cloud Computing.
- Detail-oriented and committed engineer known for on-time delivery of high-quality products. Self-motivated and quick learner.

SKILLS

Hard Skills

C# | C | C++ | Python | Bash
SQL | HTML | CSS | JavaScript

Object-Oriented Programming (OOP)
Data Structures | Algorithms
SOLID Principles | Design Patterns
Database Systems | Computer Networking
Cloud Computing | Clean Code | Security
Operating Systems | Distributed Databases
Software Development Life Cycle (SDLC)

.NET Core | .NET Framework
MVC | Web API | Razor Pages | Identity
SignalR | WebSockets | Server-Sent Events
Long Polling | Real-Time Communications
SQL Server | Azure SQL Database
NoSQL Databases | ADO.NET | Redis
Language Integrated Query (LINQ)
Entity Framework Core | Microsoft Azure

REST APIs | MVC Design Pattern
Bearer Authentication | JSON Web Token
Git | Linux | Docker | Microservices
Unit Testing | API Testing | ChatGPT

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
📅 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

English
B2