AHMED MOHAMED FATHY OSMAN

Back-End Engineer

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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.
- Refactored legacy system and coded ADO.NET Data Provider.

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.
- 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

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
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
WebRTC WebSocket Microservices
Git Linux Docker Heroku
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 or bilingual proficiency

English
Professional working proficiency