Karim Essam

Backend Engineer

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Profile

Backend Engineer with expertise in building scalable, secure, and efficient backend systems. Proven ability to design RESTful APIs, integrate databases, and implement authentication mechanisms. Experienced in mentoring junior developers and delivering backend-focused training sessions, fostering improved development practices. Committed to clean code, performance optimization, and collaborative problem-solving.

Professional Experience

Coding Instructor   08/2024 – present
Digital Egypt Pioneers Initiative - DEPI   Cairo, Egypt
- Taught **backend development** using **C#**, **SQL**, **Entity Framework**, **LINQ**, and **ASP.NET** ↗ **Web API**, focusing on scalable systems.
- Guided students in **MVC**, **Git**, and **GitHub** for version control and project management.
- Mentored 100+ students in **database integration** and **backend architecture** using **.NET technologies**.

Teaching Assistant   07/2024 – present
Information Technology Institute (ITI)   Cairo, Egypt
- Assisted in **backend labs** focusing on **.NET**, guiding students through project development and best practices.
- Provided support in integrating **backend services** with **frontend applications** using **HTML**, **CSS**, **JavaScript**, and **Firebase**.

Frontend Developer   05/2024 – 09/2024
GamifierSA   saudi arabia
- Developed and maintained **frontend applications**, optimizing user interfaces with **HTML**, **CSS**, **JavaScript**, and modern frameworks.
- Collaborated with backend teams to ensure seamless **integration** and user-centric designs.

Full Stack Developer   07/2022 – 09/2024
Mutqana   Cairo, Egypt
- Developed both **frontend** and **backend solutions** using a wide range of technologies including **C#**, **ASP.NET** ↗ **Web API**, **SQL Server**, **HTML**, and **CSS**.
- Worked closely with clients to gather requirements and delivered scalable, high-performance applications.

Education & Internship

Information Technology Institute (ITI)   11/2023 – 04/2024
Full Stack .NET Developer

Ain Shams University   2015 – 2019
Bachelor's Degree Agriculture

Skills

Backend Development: C#, ASP.NET ↗ Core, ASP.NET ↗ Web API, Entity Framework Core, LINQ, SQL Server, REST APIs, JWT Authentication, Dependency Injection, Unit of Work, Repository Pattern,Docker

Frontend Integration: JavaScript, TypeScript,React, Angular, HTML, CSS

Tools & Technologies: Git, GitHub, Firebase, Azure

Soft Skills: Team Collaboration, Mentorship, Problem Solving

Projects

Taafeei – Full-Stack Web Application
freelance
- Designed and developed RESTful APIs using **ASP.NET** ↗ **Core** for a healthcare appointment management system.
- Integrated **Geidea Payment Gateway** for secure online payments in **SAR currency**, tailored to the Saudi Arabian market.
- Built APIs for real-time notifications using **Twilio** for SMS alerts and automated reminders.
- Developed secure authentication endpoints with **JWT tokens** and **Google OAuth** for user access.
- Implemented APIs for telemedicine functionality using the **Zoom API** for video consultations.
- Containerized the API services using **Docker** for consistent development and deployment workflows.
- Deployed the API to **Azure**, ensuring high availability and scalability.
- Utilized **SQL Server** and **Entity Framework Core** for efficient data management and persistence.
- Followed **repository pattern** and **dependency injection** for maintainable and scalable code architecture.

Technologies: ASP.NET ↗ Core, SQL Server, Entity Framework Core, JWT Authentication, Docker, Azure
APIs: Geidea Payment Gateway, Twilio SMS, Zoom Video, Google OAuth

Dross - Full-Stack Web Application
freelance
- Developed a comprehensive **online learning platform** using **ASP.NET** ↗ **Core** for backend and **Angular** for the frontend, offering an interactive learning experience.
- Built a **course management system** that allows instructors to create, update, and manage courses and lessons.
- Integrated **real-time notifications** and messaging features using **Firebase** for seamless communication between students and instructors.
- Utilized **SQL Server** and **Entity Framework** to design and manage the platform's database, ensuring data integrity and efficient querying.

Technologies: ASP.NET ↗ Core, SQL Server, Entity Framework, Angular, Firebase, Git