Karim Essam

Backend Engineer

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Profile

I'm a backend engineer who makes strong, fast, and safe systems. I build APIs, connect databases, and add secure logins. I also work on frontend with Angular, React, and Next.js. I've taught over 100 students how to code and love writing clean code. I enjoy teamwork and making projects better.

Professional Experience

Digital Egypt Pioneers Initiative - DEPI   08/2024 – present
Coding Instructor   Cairo, Egypt
- Teach backend coding with C#, SQL, ASP.NET 🔗 Web API, Entity Framework Core, and MERN stack (MongoDB, Express.js, React, Node.js) for scalable systems.
- Guide 100+ students on MVC, React, Git, and GitHub for project management.
- Mentor students on database design and backend architecture using .NET and Node.js.

Information Technology Institute - ITI   07/2024 – present
External Instructor   Cairo, Egypt
- Help students in backend labs with .NET, focusing on building projects and best practices.
- Support linking backend services to frontend apps using HTML, CSS, JavaScript, and Firebase.

Freelance Software Developer   11/2021 – present
Self-Employed

- Built backend and full-stack apps for clients using .NET, Node.js, Express, NestJS, Angular, and React.
- Created APIs for e-commerce, healthcare, and learning platforms, like Talabat and Clinic Booking System.
- Used tools like Docker, Azure, and SQL Server to make apps fast and secure.
- Worked with clients to understand needs and deliver reliable solutions.

GamifierSA   05/2024 – 09/2024
Frontend Developer   saudi arabia
- Build and improve frontend apps with HTML, CSS, JavaScript, Angular, and React.
- Work with backend teams to create user-friendly designs and smooth connections.

Mutqana   07/2022 – 09/2024
Full Stack Developer   Cairo, Egypt
- Build frontend and backend solutions with C#, ASP.NET 🔗 Web API, SQL Server, HTML, CSS, and Angular.
- Work with clients to meet their needs and deliver fast, scalable apps.
- Add secure payments using Geidea Payment Gateway for Saudi Arabia (SAR currency).
- Create real-time SMS alerts with Twilio and video calls with Zoom API.
- Use Docker to package apps and deploy to Azure for reliability.

Projects

Car Rental Management System (Freelance)   03/2025 – present
Backend Developer
- Built a car rental system using NestJS and TypeScript with clean architecture.
- Created secure REST APIs with JWT, Passport.js, and Clerk for user logins.
- Used Prisma ORM and Supabase for fast database work and Cloudinary for car images.
- Added Swagger for API documentation and Jest for testing.
- Made features like car fleet management, role-based access, and error handling.
  Tech: NestJS, TypeScript, Node.js, Prisma, MikroORM, Supabase, Cloudinary, JWT, Clerk, Jest, Swagger

Taafeei - Clinic Booking and Management System (Freelance)   11/2024 – 03/2025
Backend Developer
- Built a healthcare appointment system using ASP.NET ⟋ Core MVC with clean architecture for easy scaling.
- Designed REST APIs to manage bookings, supporting secure logins with JWT and Google OAuth.
- Added Geidea Payment Gateway for safe online payments in Saudi Arabia (SAR currency).
- Created real-time SMS alerts with Twilio and video call features using Zoom API for telemedicine.
- Used SQL Server and Entity Framework Core for fast, reliable data storage.
- Packaged APIs with Docker and deployed to Azure for smooth, high-availability performance.
- Followed repository pattern and dependency injection for clean, maintainable code.
  Tech: C#, ASP.NET ⟋ Core, Entity Framework Core, SQL Server, JWT, Google OAuth, Docker, Azure, Geidea, Twilio, Zoom, MVC, Git

Dross - Online Learning Platform (Freelance)   02/2024 – 06/2024
Full Stack Developer
- Created a learning platform with ASP.NET ⟋ Core backend and Angular frontend.
- Built course management for instructors to add and update lessons.
- Added real-time messaging with Firebase for student-instructor chats.
- Used SQL Server and Entity Framework for fast, secure data storage.
  Tech: ASP.NET ⟋ Core, Angular, SQL Server, Entity Framework, Firebase, Git

Skills

- **Backend**: C#, ASP.NET ⟋ Core, ASP.NET ⟋ Web API, Node.js, Express, NestJS, TypeScript, Entity Framework Core, Prisma ORM, MikroORM, LINQ, SQL Server, REST APIs, JWT Authentication, Clerk, Passport.js, Dependency Injection, Repository Pattern, Unit of Work, Docker, Azure
- **Frontend**: Angular, React, Next.js, HTML, CSS, JavaScript, Tailwind CSS
- **Tools**: Git, GitHub, Visual Studio, Jest, Swagger/OpenAPI, ESLint, Prettier, Cloudinary, Supabase, Firebase, Twilio, Zoom API, Geidea Payment Gateway, Stripe
- **Practices**: Clean Architecture, Onion Architecture, SOLID Principles, Test-Driven Development (TDD), N-tier Architecture, MVC, API Documentation, Specification Pattern

Education & Internship

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

Ain Shams University   2015 – 2019
Bachelor's Degree Agriculture