

YOUSSEF SAAD

.Net Backend Developer

Cairo, Elshorouk City

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Summary

Eager backend developer with a strong background in .NET, seeking a challenging role to apply my knowledge and contribute to innovative projects. Ready to learn, collaborate with professionals, and apply my skills in real-world work.

Military Status

Exempted

Education

Elshorouk Academy

Bachelor of Computer Science

Aug 2021 – Jun 2025

Cairo, Egypt

Experience

.NET Backend Developer At Sheen

Oct 2025 – Now

- Developing an **Airline Project** that integrates with various airlines and exposes **APIs** for travel agencies to communicate with the system.
- Designing and implementing **RESTful APIs** to facilitate seamless integration between travel agency clients and the airline booking system.
- Worked with **OpenSearch** clusters for scalable centralized logging and observability using **OpenSearch** and **OpenTelemetry**.

Fullstack .Net Developer At ARID Scientific

Jan 2025 – Sep

- Developed multiple **scientific platforms** and **CMS/LMS systems** from scratch using **.NET** and **Angular**, applying various architectures including **Onion Architecture** and **Vertical Slice Architecture**.
- Implemented the **Transactional Outbox Pattern** to integrate with third-party services such as **S3 buckets**, **DigitalOcean Spaces**, **Cloudflare R2**, and emailing services, leveraging **background jobs** for reliability.
- Worked with **Minimal APIs**, **MediatR**, **CQRS**, and **FluentValidation** to ensure clean, maintainable, and scalable codebases.
- Built an **AI-powered content processing pipeline** by integrating **OpenAI** and **OCR services** to extract, process, and summarize course content using **asynchronous communication patterns**.
- Applied advanced **logging techniques** and best practices to improve system maintainability and observability.
- Integrated with **remote Identity Server** using **JWT tokens** for secure authentication and authorization.

.NET Mentor At Route Academy

May 2025 – Now

- I help up-and-coming developers by sharing what I know about .NET and backend stuff. I run tech sessions, give one-on-one feedback, and help students work through tough coding problems.

Software Engineer Intern At Smart Technologies

Dec 2024 – Jan 2025

- Contributed to the development of a **POS** and **Inventory system** for a restaurant, participating in the complete project development life cycle.
- Gained hands-on experience with **Odoo** modules, including Purchasing, Sales, and Inventory.

.NET Development Training At Route

Nov 2023 – May 2024

- Gained expertise in SQL Server with LINQ, Entity Framework Core, and ASP.NET Core (MVC and API). Applied these skills in real-world projects, including an **HR System** using MVC and an **E-Commerce** platform utilizing API with Onion architecture.

Projects

Online Judge (GitHub) | Asp .Net Core API | *Graduation Project* **March 2025**

- Developed an online judge similar to LeetCode, supporting multiple programming languages.
- Built a **secure sandbox environment** using **Docker containers** and **shell scripts** to enforce running the client code with limited memory and runtime.
- Integrated **Redis** and **Elasticsearch** for caching, leaderboard management, and efficient problem searching.
- Implemented real-time peer programming using **SignalR** and **WebRTC**, enabling collaborative coding sessions.
- Optimized performance and security by implementing **rate limiting**, **caching strategies**, and email notifications.
- Designed with **Clean Architecture**, utilizing **CQRS**, **Mediator Pattern**, and Fluent Validation for maintainability.

E-Shop Microservices (Github) | ASP.NET Core, Microservices **2025**

- Designed and implemented a microservices-based e-commerce system using **DDD**.
- Applied **Clean Architecture**, **CQRS**, **Vertical Slice**, and **N-Tier Architecture** across services.
- Implemented asynchronous communication using **RabbitMQ** with **MassTransit**, including **Domain Events** and **Integration Events**.
- Used **YARP Gateway** for routing, **rate limiting**, and **logging**.
- Implemented **gRPC** communication using **Protocol Buffers** between internal services.
- Applied **Outbox** and **Saga** patterns to ensure data consistency across services.
- Used **EF Core** and **Marten** as ORMs, with **Redis** for caching.
- Containerized services using **Docker** for local development and deployment.

School Management System (Github) | Asp .Net Core API **July 2024**

- Built the project using Clean Architecture, with CQRS, Mediator patterns, and Fluent Validation to make the code easy to manage and reliable.
- Added support for multiple languages using Localization and used Serilog for detailed error logging.
- Improved database performance with Views and Stored Procedures.
- Used JWT and Refresh Tokens for secure login, and managed user roles and permissions.
- Added features for email confirmation and password reset to improve security.

E Learning (Github) | Asp .Net Core MVC **May 2024**

- Used a 3-tier architecture.
- Used Repository pattern, Specification pattern, Unit of Work, AutoMapper, and Identity.
- Used Redis to cache data like Customer Cart.
- Applied filtering and searching with AJAX calls, partial views, and the Specification pattern on the server side.
- Managed file processes such as uploading and downloading.

Skills

Backend: ASP.NET Core API, ASP.NET Core MVC, SQL Server, Entity Framework Core, LINQ, SignalR

Architectures & Design: Microservices, DDD, Clean Architecture, CQRS, Vertical Slice Architecture, N-Tier Architecture

Messaging & Communication: RabbitMQ, gRPC, Protocol Buffers

Patterns: Outbox Pattern, Saga Pattern, Repository Pattern, Decorator Pattern

Technologies: Docker, Redis, Elasticsearch, Git, GitHub, YARP Gateway

Concepts: SOLID Principles, OOP, Data Structures and Algorithms

Frontend: HTML, CSS, JavaScript, Angular (Basics)

Problem Solving: Participated in ECPC and competitive programming for 2 years. Solved over 1400 problems on platforms such as Codeforces, LeetCode, and HackerRank.