Asmaa Mostafa Mohamed

Junior Backend .NET Developer

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Professional Summary

Junior Backend .NET Developer and Communications and Computer Engineering student (expected graduation 2027). Team Leader and backend developer of **BloodFlow**, a 9-member graduation project built on .NET 10, ASP.NET Core Web API, EF Core and SQL Server with Clean Architecture, JWT and role-based access, xUnit tests and GitHub Actions CI.

Technical Skills

Programming: C#, Object-Oriented Programming, LINQ, Async/Await, Exception Handling

Backend: ASP.NET Core Web API, ASP.NET Core MVC, .NET 8/10, RESTful API Design, Swagger/OpenAPI

Data: SQL Server, Entity Framework Core (Code-First, Migrations), Dapper, Stored Procedures

Security: JWT, OAuth 2.0, ASP.NET Core Identity, Role-Based Access Control (RBAC), BCrypt Password Hashing

Architecture: Clean Architecture, SOLID Principles, Repository Pattern, Dependency Injection

Testing and Tools: xUnit, GitHub Actions (CI), Git/GitHub (pull requests), Postman, Azure DevOps, Visual Studio 2022, Agile/Scrum

Projects

BloodFlow | Smart Blood Inventory & Redistribution System (Graduation Project) github.com/asmaa-mostafa25/BloodFlow

- **Team Leader** of a 9-member team (backend, frontend, UI/UX, AI); owner of the ASP.NET Core Web API connecting hospitals, blood banks, donors and recipients across Egypt's 27 governorates.
- Built a four-layer Clean Architecture solution (.NET 10, EF Core 10, SQL Server) with 50+ REST endpoints, delivered in feature slices through reviewed pull requests.
- Implemented ASP.NET Core Identity with JWT and 5 roles, account lockout, staff approval workflow, audit logging, and per-request account status checks.
- Built batch inventory with a stock ledger, expiry job and FEFO reservations for normal and emergency requests; integrated the team's AI forecasting service; 40 xUnit tests run in GitHub Actions CI.

CourseOnline.Auth | LMS Authentication Service github.com/asmaa-mostafa25/CourseOnline-ASP.NET-Core

- REST API for registration, login and multi-channel identity verification: JWT, OAuth 2.0, RBAC and BCrypt, with Dapper reads, EF Core migrations and Swagger docs.

E-Commerce MVC | ASP.NET Core MVC Web Application github.com/asmaa-mostafa25/EcommerceMVC

- Product browsing, cart, checkout and PayPal payments, with Admin and Customer roles and a dashboard for products, categories and orders (SOLID, DI, Repository Pattern, EF Core).

EgyMediChain | Pharmaceutical Supply Chain Platform (Team Project) github.com/asmaa-mostafa25/Egymedichain_Frontend

- Project initiator and frontend/integration lead: defined the requirements and database design, built the React.js (Vite, Tailwind CSS) interface, and integrated it with the backend REST APIs via OpenAPI.

Training and Internship Experience

Full Stack .NET Developer Trainee | Digital Egypt Pioneers Initiative (DEPI) *Nov 2025 – Jul 2026*

- Built RESTful APIs with versioning, structured exception handling and Swagger using Clean Architecture and the Repository Pattern, in Agile/Scrum sprints with peer code reviews.

Backend .NET Developer Trainee | CodeWay Mentorship Program, Mansoura

- Built backend projects in a mentored team tracked in Azure DevOps, including the team LMS authentication module (CourseOnline.Auth).

Education

B.Sc. in Communications and Computer Engineering – Higher Institute of Engineering and Technology, Tanta *Expected 2027*

Courses and Certifications

- **Full Stack Web Development using .NET**, Information Technology Institute (ITI) (Sep – Oct 2026)
- **Backend – ASP.NET Web Development**, International Professionalism Academy (IPA), 120 hours, distinction (Oct 2025)
- **Web Designer Track**, National Telecommunication Institute (NTI), 120 hours (Jul – Aug 2025)

Languages – Arabic: Native **English:** Intermediate (B1–B2), DEPI Business English Track