

SAYED AHMED ELMAHDY

.NET Developer (ASP.NET Core & MVC)

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SUMMARY

A .NET Developer with hands-on experience building ERP, e-commerce, and SaaS systems in production environments. Skilled in developing both backend APIs and full MVC-based web applications using ASP.NET Core. Experienced in designing scalable REST APIs, integrating payment and shipping services, and optimizing performance using SQL Server and caching techniques. Strong background in Clean Architecture, delivering reliable, maintainable, and business-focused solutions.

EXPERIENCE

.NET Developer | Z4U | Remote | Apr 2024 – Present

- Full-time Feb 2026 – Present
- Rejoined the company full-time after completing military service.
 - Contributing to backend architecture, scalable APIs, and business-critical workflows.
 - Working on performance optimization, integrations, and production system enhancements.

- Part-time (During Military Service) Feb 2025 – Feb 2026
- Continued maintaining and developing ERP and e-commerce systems remotely.
 - Delivered API enhancements, bug fixes, and database optimizations.
 - Collaborated with the team to maintain release quality and production stability.

- Full-time Apr 2024 – Jan 2025
- Developed ERP, e-commerce, and SaaS solutions across multiple business workflows.
 - Designed and implemented scalable REST APIs and integrated payment/shipping services.
 - Improved system performance through query optimization and caching techniques.
 - Applied Clean Architecture principles and contributed to production support and feature delivery.

ASP.NET MVC Developer (Military Service) | Government Entity (Egypt) | Feb 2025 – Feb 2026

- Developed internal systems for attendance, leave management, reporting, and dashboards.
- Implemented role-based access control (RBAC) and audit logging.
- Designed and optimized SQL Server queries and reporting workflows.
- Built operational dashboards and automated internal workflows.

KEY PROJECTS

ERP + E-Commerce Backend Platform (API) | GitHub Repository Link 2025 – Present

- Designed and developed a large multi-module .NET 8 backend covering ERP and e-commerce workflows across accounting, auth, catalog, cart, orders, shipping, reporting, and analytics.
- Implemented secure authentication using JWT and fine-grained permission policies.
- Built automated workflows using Hangfire for background processing (invoices, notifications, scheduled jobs).
- Generated PDF invoices and shipping labels dynamically.
- Validated 45+ API endpoints with a 100% success rate using Postman.

Technologies: .NET 8, ASP.NET Core Web API, EF Core 8, SQL Server, Hangfire, Serilog, Swagger, SignalR.

Facebook Messenger Campaign API | GitHub Repository Link 2025 – Present

- Integrated Facebook Graph API with secure OAuth authentication and token management.
- Built a campaign system for creating and scheduling personalized Messenger campaigns.
- Implemented real-time updates using SignalR and handled incoming messages via Webhooks.
- Added rate limiting, logging, and message personalization with dynamic placeholders.

Technologies: ASP.NET Core 8, JWT, SignalR, EF Core, SQL Server, Facebook Graph API.

Conscript Affairs Management System | Military Service Internal System Feb 2025 – Feb 2026

- Designed and developed a centralized ASP.NET Core MVC system managing attendance, leave requests, reporting, and analytics dashboards.
- Implemented role-based access control (RBAC) and secure handling of sensitive operational data.
- Built audit logging and tracking mechanisms for user actions and system activities.

- Designed and optimized SQL Server database structure, improving query performance and reporting efficiency.
- Developed dashboards and reporting tools to support operational monitoring and decision-making.
- Integrated background jobs and real-time updates to automate workflows and improve system responsiveness.
- Reduced manual administrative work by automating reporting and workflow processes.

Technologies: .NET 8, ASP.NET Core MVC, EF Core, SQL Server, Identity, Hangfire, SignalR, Serilog.

Electronic Mind of Alzheimer Patient | Graduation Project | GitHub Repository Link Oct 2023 – Jul 2024

- Developed a backend system for patient tracking, reminders, and scheduling using ASP.NET Core Web API.
- Implemented secure authentication and authorization using ASP.NET Identity and JWT.
- Built real-time features using SignalR to support live updates and notifications.
- Integrated an AI-based face recognition module using FastAPI and OpenCV for patient identification.
- Designed and managed SQL Server database for storing patient data, schedules, and activity logs.
- Connected backend services with a Flutter mobile application for end-user interaction.

Technologies: ASP.NET Core, Web API, Identity, JWT, SignalR, EF Core, SQL Server, FastAPI, OpenCV, Flutter.

Ecommerce (Company Project) | Z4U | <https://rahaall.com> 2024

- Contributed to the development and maintenance of a live e-commerce platform handling real user traffic and business operations.
- Improved backend performance using caching (Redis) and query optimization, reducing response time and enhancing system efficiency.
- Integrated ERP workflows with the e-commerce system, enabling seamless order, inventory, and operational management.
- Built and enhanced REST APIs supporting product management, orders, and customer interactions.
- Diagnosed and resolved production issues to maintain system stability and reliability.
- Contributed to a production system serving real users with continuous feature updates and performance improvements.

Technologies: ASP.NET Core Web API, ASP.NET MVC, SQL Server, EF Core, Redis.

EDUCATION

Bachelor of Computer Science, ElShorouk Academy – Egypt	2024
GPA: 3.5/4.0	

INVOLVEMENT

GDSC El Shorouk Academy	• Programming Language Mentor	Oct 2022 - Jun 2023
CPC El Shorouk Academy	• Problem-Solving Mentor	Oct 2021 - Oct 2022

SKILLS

- Backend & Web (.NET): C#, ASP.NET Core (.NET 6/7/8/9), Web API, MVC, Routing, Middleware, Filters, Dependency Injection, Minimal APIs
- Architecture: Clean Architecture, SOLID Principles, Layered Architecture, Design Patterns (Repository, Unit of Work), Basic Microservices Architecture
- Database: SQL Server, MySQL; EF Core, Dapper; Query Optimization, Indexing, Transactions, Stored Procedures, Relational Database Design
- APIs & Integration: RESTful APIs, Swagger/OpenAPI, Third-party Integrations (PayPal, MyFatoorah, Tabby, Aramex, SMSA, Facebook Graph API), Webhooks
- Realtime: SignalR, WebSockets
- Auth & Security: JWT, OAuth, ASP.NET Identity, Role-Based Access Control (RBAC), Secure Coding, OWASP Top 10
- Messaging & Caching: Redis (Caching), RabbitMQ (basic), Background Jobs (Hangfire)
- DevOps & Tools: Git/GitHub, Postman, Serilog, Docker (basic), Azure (basic), CI/CD (basic)
- Testing: Unit Testing, API Testing (Postman)
- Frontend (MVC): HTML, CSS, JavaScript, jQuery, Bootstrap
- Core Concepts: OOP, Data Structures & Algorithms, SDLC, Performance Optimization, Scalability, Maintainability
- Soft Skills: Problem Solving, Communication, Teamwork, Ownership, Adaptability, Time Management, Mentoring, Leadership