

# SAYED AHMED ELMAHDY

## .NET Developer

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### SUMMARY

A .NET Developer with experience since 2023 in web development, focused on solving complex problems and writing clean, efficient code. Skilled in building scalable web applications and APIs using ASP.NET MVC and ASP.NET Core Web API, with strong database work using SQL Server and Entity Framework. Experienced in improving performance, maintainability, and system reliability through clean architecture and best practices. Continued technical development during military service by contributing to official internal systems (internal projects), while consistently aiming to deliver high-quality solutions.

### EXPERIENCE

#### .NET Developer | Z4U | Full-time (Remote)

Apr 2024 – Mar 2025

- Developed ERP, e-commerce, and SaaS web solutions across 3 product lines using ASP.NET MVC and ASP.NET Core Web API.
- Built REST APIs and business modules with SQL Server + Entity Framework, supporting database-driven workflows.
- Implemented authentication/authorization and improved code maintainability through clean architecture practices.
- Supported production delivery during a 12-month full-time engagement (feature delivery, bug fixing, production support).

#### .NET Developer | Z4U | Part-time (Remote)

Apr 2025 – Present

(10–15 days/month during military service)

- Continued delivering enhancements and maintenance on a part-time schedule (10–15 days/month) during military service.
- Implemented API and database updates while keeping releases stable and resolving production issues.
- Supported ongoing improvements in performance, reliability, and code quality.

#### ASP.NET MVC Developer (Internal Systems) | Government Entity (Egypt)

Feb 2025 – Present

(Military Service — Certificate available upon request)

- Developed an internal ASP.NET MVC system supporting 3 core workflows: attendance/leaves, reporting/exports, and dashboards/analytics.
- Implemented role-based access control, auditing/logging, and secure handling of sensitive operational data.
- Designed and maintained SQL Server database structures and reports to support daily operations.

### PROJECTS

#### ERP + E-Commerce Backend Platform (API) | [GitHub Repository Link](#)

2025 – Present

- Designed an end-to-end .NET 8 API combining ERP operations with an e-commerce storefront (inventory, orders, returns, shipping, payments, accounting).
- Built secure access control (JWT + permission policies) and automated workflows with background jobs + PDF invoice/labels support.
- Validated 45 API endpoints in dev testing with a 100% pass rate (Postman test report).

**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

- Connected Facebook Pages securely via OAuth + tokens and created/scheduled Messenger campaigns with personalization and image support.
- Consumed Facebook Webhooks for incoming messages and delivered real-time updates via SignalR with operational logging and quotas/rate limiting.
- Implemented message personalization with 6 supported placeholders (e.g., first/last/full name + date/time variants).

**Technologies:** ASP.NET Core 8, JWT + Identity, SQL Server + EF Core, SignalR, Serilog, Resend API, ImageSharp, FacebookGraph API + Webhooks.

#### Conscript Affairs Management System | Military Service Internal System | [GitHub Repository Link](#)

Feb 2025 – Present

- Centralized conscript workflows (attendance/leaves, reporting/exports, dashboards/analytics) in an ASP.NET Core MVC internal system.
- Implemented fine-grained permissions, logging, backups, notifications, and real-time features.

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

- Developed secure authentication/authorization (Identity + JWT) and real-time features (SignalR) for patient tracking, reminders, and scheduling.
- Integrated AI face-recognition component (FastAPI/OpenCV) and connected backend services with a Flutter mobile app.

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

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

2024

- Improved backend performance using caching and query optimization and supported ERP integration for business workflows.

**Technologies:** ASP.NET Web API/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 / .NET:** C#, ASP.NET Core (MVC, Web API), Routing, Middleware, Filters, Dependency Injection
- **Database:** SQL Server, MySQL; ORM: EF Core, Dapper; Query Optimization, Indexing (basic)
- **APIs & Realtime:** REST, Swagger/OpenAPI, SignalR, WebSockets
- **Auth & Security:** JWT, OAuth, Identity; Secure coding & OWASP Top 10 awareness
- **Messaging & Caching:** RabbitMQ (basic), Redis (caching)
- **Tools & DevOps:** Git/GitHub, Postman, Serilog; Docker (basic), Azure (basic)
- **Frontend (MVC):** HTML, CSS, JavaScript, jQuery, Bootstrap
- **Core Concepts:** OOP, Clean Code, Clean Architecture, SDLC, Design Patterns, Data Structures & Algorithms
- **Soft Skills:** Problem Solving, Communication, Collaboration, Reliability, Ownership, Adaptability, Attention to Detail, Teamwork, Accountability, Mentoring, Leadership, Time Management