

# Mohamed Fathi Khalifa

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## PROFILE

I am looking for a job that suits me as a full-stack developer, currently pursuing a Professional Diploma in Information Technology and Engineering in the Faculty of Computer and Information Sciences at Ain Shams University. Experienced in back-end development with a focus on .NET and RESTful APIs. Seeking a software development role to apply and enhance my skills in building secure, scalable solutions and to contribute to innovative team-driven projects.

## EXPERIENCE

### Freelance Full-Stack Developer (.NET & Angular)

Oct 2025 – Present

- Delivering scalable back-end architectures and secure RESTful APIs using ASP.NET Core and SQL Server, while creating responsive interfaces with Angular. My primary focus is on server-side performance, database optimization, and implementing complex business logic. I ensure code quality through Clean Architecture and strictly adhere to project timelines to meet client expectations.

### .NET Full-Stack Development Trainee

Giza, Egypt

Information Technology Institute (ITI)

July 2025 – Dec 2025

- Developed full-stack web applications using ASP.NET Core, Entity Framework Core, Angular, and SQL Server, applying OOP and software engineering principles. Collaborated in Agile teams using Git/GitHub to build and deploy RESTful APIs and real-world business solutions.

### Odoo Developer Trainee

Giza, Egypt

ZAD Solutions

May 2025 – Aug 2025

- Specializing in building scalable custom modules, optimizing workflows, and delivering robust ERP solutions tailored to business needs. Skilled in Python, PostgreSQL, XML, and JavaScript, I thrive on transforming complex requirements into seamless Odoo applications.

### .NET Full-Stack Development Trainee

Smart Village, Egypt Oct.

Digital Egypt Pioneers Initiative (DEPI)

2024 – Apr. 2025

- Developed scalable full-stack web applications using ASP.NET Core, leveraging MVC/Razor Pages for the front end, Entity Framework Core and SQL Server for data management, and RESTful APIs with clean architecture principles (SOLID design patterns)

### .MEAN-Stack developer Trainee

Menofia, Egypt Aug. 2024

National Telecommunication Institute(NTI)

– Nov. 2024

- Develop a full-stack e-commerce app using the MEAN stack with user authentication, product management, shopping cart, and order processing. Secure admin routes for product and order management, and deploy for testing and demonstration.

## PROJECTS

### UniRoute - Bus Transportation Aggregator

- Developed a scalable .NET 8 Web API using Clean Architecture DDD to aggregate real-time bus trips from multiple operators into a unified RESTful API, resolving data inconsistency and improving search accuracy.
- Built a hybrid data scraping processing engine (Playwright, HttpClient, Hangfire) with data normalization using FuzzySharp (85

### Al-Madrasa(LMS)

- Developed the Al-Madrasa (LMS) back-end using ASP.NET Core MVC, Entity Framework Core, and SQL Server, implementing Repository Unit of Work patterns with secure role-based authentication and authorization via ASP.NET Core Identity.

### HR Management System

- Architected a decoupled backend using Dependency Injection (DI) to manage service lifecycles and integrated AutoMapper for efficient mapping between Domain models and DTOs.

- Developed a dynamic Request Management Module allowing employees to submit requests, e.g., Leave, featuring a complete workflow for HR Approval and Rejection.
- Implemented ASP.NET Core Identity to secure the system, utilizing Role-Based Authorization to separate access levels between HR Administrators and Employees strictly.

#### ⌚ Quiz System API ↗

- Applied Repository, Unit of Work, and Service design patterns within a Clean Architecture framework (ASP.NET Core API) to ensure strong separation of concerns.
- Implemented robust JWT Authentication and Role-Based Authorization (RBAC) using ASP.NET Core Identity.
- Managed complex transactional workflows (e.g., synchronized creation of Identity User and corresponding Profile Record using UoW Rollback). Developed IHostedService background jobs for critical recurring tasks (e.g., auto-completing expired exams) to ensure data integrity and system efficiency.

#### ⌚ E-Commerce Application ↗ -Frontend

- Developed a dynamic Angular frontend using TypeScript, integrated with a custom .NET backend via RESTful APIs, featuring a shopping cart, product listings, and secure JWT-based authentication.
- Built modular Angular services for efficient API communication and implemented role-based access for administrators to manage products.

#### ⌚ Chat-App ↗

- Developed a desktop chat app using C# and .NET Framework, with ADO.NET for SQL Server integration. Implemented secure user authentication, allowing users to register, log in, send messages, and view both inbox and unread messages from other registered users.

#### ⌚ Expense Tracker Application ↗

- Built a web-based expense management system using ASP.NET MVC with Entity Framework. Implemented Repository and Unit of Work design patterns for clean architecture. Users can add, update, and delete income and expense records, and view a summary of total income versus expenses.

## EDUCATION

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### Postgraduate Degree, Professional Diploma in Information Technology and Engineering (DITE)

Oct. 2024 – Present

*Faculty of Computer and Information Sciences, Ain Shams University*

- Pursuing a Professional Postgraduate Diploma in Information Technology and Engineering (DITE) at Ain Shams University, with a strong focus on software development, databases, computer security, networking, web technologies, and hands-on real-world application development.

### Bachelor's Degree in Business Administration(BA)

2016 – 2020

*National Egyptian E-Learning University(EELU)*

GPA: 3.15

## CERTIFICATIONS

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### .NET Full-Stack Developer Specialization

2024

Coursera,

Master .NET Full Stack Development using .NET Core & modern web technologies.

## SKILLS

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**Backend Development :** ( C/C++ — C# — Python — ASP.NET Core MVC — ASP.NET Core Web API — Web Scraping — Entity Framework — LINQ — JWT Authentication — .NET Architecture — SQL Server — PostgreSQL — XML — Node.js — Express.js — MongoDB )

**Frontend Development :** ( React — Angular — JavaScript — Typescript — ES-6 — HTML5 & CSS3 — Bootstrap ) Basic & Concepts ( Data Structures — OOP — SOLID Principles )

**Soft Skills :** ( Solving Problems — Good communication skills — Critical thinking — Time management — Attention to detail — Willing to learn ).