

AHMED LOTFY MAHFOUZ

TECHNICAL TEAM LEAD · .NET SYSTEMS · PRODUCTION AI

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Technical Team Lead and .NET full-stack engineer with 8+ years building enterprise APIs, system integrations, and microservices, now focused on bringing AI into production .NET systems. Experienced integrating hosted LLMs (Claude, OpenAI) and self-hosted models via Ollama on NVIDIA DGX hardware for data-sensitive use cases, backed by a strong core in .NET, Angular, and cloud. Leads a team delivering payment, POS, and SSO integrations at enterprise scale, and ships AI-powered products independently.

SKILLS

Languages & Frameworks

C#, .NET (Core, Entity Framework, WCF, MVC, Web API, gRPC), LINQ, TypeScript, JavaScript, HTML5, CSS3, Angular, jQuery, MSSQL, T-SQL

Architecture & Integration

Microservices, API development, system integration (ESB), payment and POS systems, Active Directory, Single Sign-On (SSO), multi-tenancy

AI & LLM

Claude API (Anthropic), OpenAI API, Ollama (self-hosted models on NVIDIA DGX Spark), RAG, vector search and vector databases, Microsoft.Extensions.AI (MEAI), structured output, fal.ai (image generation)

Tools & Platforms

Azure Cloud, Azure DevOps, CI/CD pipelines, Docker, Git, AI-assisted IDEs

WORK EXPERIENCE

Technical Team Lead

Nov 2020 - Present

ENOC · Dubai, United Arab Emirates

- Lead a team of 5 engineers building internal and external services for enterprise retail and payment systems, owning delivery from design through production.
- Stood up self-hosted LLM infrastructure with Ollama on NVIDIA DGX Spark, running open models fully on-premises so sensitive corporate data never leaves the organization.
- Built an internal RAG assistant over company policies and technical documentation, and an AI code-assistance tool used daily by the engineering team.
- Developed text-classification services and autonomous agents that automate SDLC workflows, including AI code review and security review in CI.
- Built POS and kiosk integration services using WCF, RESTful APIs, and Software AG ESB; delivered admin portals with Active Directory and custom SSO on .NET 10 and Angular 22.
- Optimized mobile-facing APIs, reducing response times by ~30%, and refactored legacy services, improving maintainability by ~40%.
- Established CI/CD pipelines and authored integration and deployment documentation adopted as the team standard.

Senior Software Engineer (Part-time)

Nov 2020 - Dec 2025

Compass International Software Company · Dubai, United Arab Emirates

- Built a multi-tenant ERP platform end to end with .NET and the ABP (ASP.NET Boilerplate) framework.
- Implemented core ERP modules and the mobile-facing API layer.
- Established CI/CD pipelines for streamlined releases.

.NET Full Stack Engineer / C# Developer

Oct 2019 - Nov 2020

Compass International Software Company · Cairo, Egypt

- Developed shipment-tracking and optimization features that improved customer satisfaction.
- Developed and supported C# .NET, JavaScript, and AJAX applications.
- Independently investigated and resolved complex issues to extend system functionality.

.NET Full Stack Engineer / C# Developer

Jul 2017 - Oct 2019

Pearogram · Cairo, Egypt

- Analyzed requirements and developed scalable software solutions for multiple websites.
- Designed, implemented, and optimized web pages using HTML, JavaScript, AJAX, and JSON.
- Delivered client projects with a focus on continuous improvement and user satisfaction.

EDUCATION

B.Sc. in Pure Mathematics and Computer Science

Sep 2013 - Jan 2019

Menoufia University · Shibin El Kom, Egypt

CERTIFICATIONS

Hands-On: System Design for Beginners

Aug 2026

Dometrain, authored by Nick Chapsas · Certificate ID [kdejiLiMrXCx3o](#)

PROJECTS

GenAI for .NET · On-Premises LLM Platform

[ahmedlotfi.dev/dgx-llm.html](#)

Chat, RAG, and vector-search applications in .NET built on Microsoft.Extensions.AI, with OpenAI and self-hosted Ollama models behind one abstraction. Now runs four workloads in production: AI code review, security review, grounded RAG chat, and code generation, with data never leaving the organization.

ViP · Vehicle Identification Pass (ENOC APIs)

[vipselect.enoc.com](#)

Modernized the system with a redesigned database and enterprise service bus integration, built FastEndpoints APIs to streamline fueling and payment, and delivered an Angular interface for end users.

AnimeCV

[animecv.app](#)

Full-stack web app that parses an uploaded resume and regenerates it as an anime character card with derived stats, an archetype, and a generated hero image, exportable as an HD PDF. Uses the Claude API for structured resume analysis and content generation and fal.ai for image generation, covering prompt design, JSON output parsing, and PDF rendering.

ENOC Services · Contactless Cards, Vending and POS Machines (APIs)

Designed contactless payment services integrated with POS and vending machines, including the Network International payment integration, and built financial account management services on a service-oriented architecture.

ENOC Pay · Mobile Application

[Google Play](#)

Enhanced REST API endpoints and redesigned the application for a better user experience; delivered complete technical and deployment documentation.

Tenxerp · ERP System

[tenxerp.com](#)

Full-stack multi-tenant ERP built on .NET and the ABP framework.

Charity UAQ · Web Portal

[charity.uaq.ae](#)

ERP for UAE charities with ASP.NET Core APIs, an Angular portal, and an ASP.NET Core MVC admin dashboard.

DMG Publisher · Web Portal

[dmgpublisher.com](#)

Book publishing platform built on .NET Framework and Bootstrap.

LANGUAGES

Arabic · Native

English · Professional working proficiency