

Mennatallah Hesham Ebied

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SUMMARY

Full-Stack Developer with a background in Electronics & Communication Engineering and intensive ITI training in .NET and Generative AI. Experienced in building scalable RESTful APIs, multi-agent AI systems, and responsive front-end applications using Angular and React.

EDUCATION

Information Technology Institute (ITI), Full-Stack Web & Generative AI Development using .Net 12/2025 – Present
Zagazig University, Bachelor of Electronics and Communication Engineering 09/2020 – 07/2025

TRAINING

Full-Stack Web & Generative AI Trainee, Information Technology Institute (ITI) 12/2025 – 07/2026

- Built enterprise-grade backends using C#, .NET Core, ASP.NET Web API/MVC, Entity Framework, and LINQ.
- Designed and deployed intelligent AI workflows using RAG pipelines, Agentic AI patterns, and Gen-AI APIs.
- Developed responsive frontends with Angular, TypeScript, and Bootstrap; practiced clean code and security best practices.
- Trained in SQL Server, Docker, software testing methodologies, and Git source control.

PROJECTS

Mawjood – AI Customer Support Agent for Social Commerce, ITI Graduation Project

- Built a multi-tenant SaaS platform providing an AI customer support agent that operates inside merchants' Instagram and Facebook DMs, replying instantly in Egyptian Arabic.
- Architected the system using Clean Architecture on **.NET Aspire** (.NET 9), with an **Angular 20** frontend for the merchant dashboard.
- Implemented a **RAG** pipeline using a **PostgreSQL** pgvector database to ground AI responses in each merchant's live Shopify catalog, ensuring multi-tenant data isolation.
- Integrated Azure **OpenAI (GPT-4o)** to generate natural Egyptian Arabic responses and enable automated actions like order tracking and Cash-on-Delivery order placement via the Shopify API.
- Developed the merchant-facing Angular dashboard, including an "Agent Playground" for testing AI responses against live catalog data before deployment.

Developer Habit Tracking Application 🌐

- Built a full-stack habit tracker for developers using **.NET Web API** and **ASP.NET Core** following clean architecture principles.
- Utilized **Entity Framework Core (EF Core)** as the ORM to manage data access logic, handle migrations, and map domain models efficiently
- Designed and optimized relational data structures using **PostgreSQL**.
- Developed a responsive **Angular** frontend with asynchronous state stream management.

Restaurant E-Commerce Platform 🌐

- Engineered a dynamic restaurant web app with cart management and authentication using **React** and **Redux Toolkit**.
- Styled with **Tailwind CSS** for a mobile-first, pixel-perfect UI
- Integrated **Firebase** for auth, real-time DB, and hosting.

Car Parking Dashboard 🌐, Graduation Project

- Developed a real-time parking management dashboard to optimize space utilization and revenue tracking.
- Built an interactive UI with **React.js** using functional components and React Hooks
- Integrated **Firebase** for seamless data fetching, enabling live updates

SKILLS

Backend: .NET Core, ASP.NET Core Web API, C#, Entity Framework Core
Frontend: Angular, React, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, Bootstrap
Databases: SQL Server, PostgreSQL
DevOps & Tools: Docker, Git, GitHub

CERTIFICATES

Frontend Engineering with React 🌐
Databases 🌐
Introducing Generative AI with AWS 🌐