

# Hazem Helal

Software Engineer

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## Education

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Fayoum University | Bachelor of Computer Science

Sep 2021 – Jun 2025

- Core CS coursework: **Programming, OOP, Data Structures & Algorithms, Discrete Math, Probability & Statistics, Databases, Software Engineering, Operating Systems, Computer Architecture, AI, Machine Learning, and Computer Networks & Security.**
- Participated in **ECPC** and practiced competitive programming on **LeetCode** and **Codeforces**, sharpening problem-solving skills.
- Contributed to the **ICPC Club** by mentoring peers in algorithms and problem-solving, with a focus on competitive programming.

## Experience

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Route | Backend Training

Oct 2024 – May 2025

- Built backend services with **.NET Core** and **C#**, following Clean Architecture for maintainability and scalability.
- Developed RESTful APIs using **ASP.NET MVC/Web API** and **Entity Framework Core** with **SQL Server**.
- Implemented design patterns, consistent API responses, error handling, and audit logging (soft delete) to improve reliability.

## Projects

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CineMate | .NET 8, NextJS

[Repo](#)

- Led the backend team, managing features, task assignments, testing, and deployment.
- Built a movie platform with **NextJS** frontend and **.NET Web API** backend for streaming and content delivery.
- Developed social features (follow/unfollow, feeds, comments) and a hybrid recommendation system using user data and movie content.
- Implemented an NLP module to analyze reviews and highlight key audience opinions.

Therapist-Patient Platform | .NET 9, SQL Server, Clean Architecture

[Repo](#)

- Developed therapist and patient microservice APIs with **Clean Architecture**, **EF Core**, and **SQL Server**.
- Implemented event-driven communication with **MassTransit** and **RabbitMQ** for scalable interactions.
- Structured solution into Domain, Application, Infrastructure, and Presentation layers for maintainability.

Talabat API | .NET 8, SQL Server, Onion Architecture

[Repo](#)

- Created APIs for vendors to manage stores, menus, and orders using **.NET Core**.
- Boosted performance with **Redis caching** and optimized queries in **SQL Server**.
- Designed scalable endpoints with Onion Architecture for easier extension and maintenance.

## Skills

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**Languages** : C#, C++, SQL, JavaScript

**Technologies** : .NET 9, EF Core, MS SQL Server, NextJS, Tailwind CSS, RabbitMQ, MassTransit

**Tools** : Git, GitHub, Postman, Swagger/OpenAPI, Visual Studio, VS Code, Docker

**Concepts** : Microservices, REST APIs, OOP, Design Patterns, Data Structures & Algorithms, Databases, Problem-Solving

## Activities

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Google DSC | Problem-Solving Head

- Led a group of 20+ members, teaching algorithms and problem-solving techniques for LeetCode challenges.
- Organized coding sessions for competitive programming.
- Developed structured learning plans covering sorting, recursion, greedy algorithms, and basic dynamic programming.

Enactus FSB | Design Member

- Created visually appealing designs for social media and marketing materials using Adobe Photoshop and Canva.
- Developed branding content for Enactus projects and events while implementing modern visual storytelling techniques.