

Hazem Helal

Software Engineer

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Education

Fayoum University | Bachelor of Computer Science

Class of 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

Route

Oct 2024 – May 2025

Backend Training

Giza, Egypt

- Built backend applications using **.NET Core**, applying **C#, OOP, MS SQL, and Entity Framework Core** to develop efficient systems.
- Designed and implemented structured **MVC and API architectures**, improving code maintainability and performance.
- Applied design patterns to enhance scalability and optimize database interactions, ensuring robust application development.

Projects

CineMate | .NET 8, NextJS

[Repo](#)

- Led project team and worked as main **.NET** backend dev. Set features, assigned tasks, helped teammates and managed testing and deployment.
- Built a movie platform with NextJS for the front-end and .NET Web API for backend services to show and stream movies.
- Made social features like follow/unfollow, activity feeds, and comments to help users connect with each other.
- Created a movie recommendation system that uses both user data and movie content to suggest films users might like.
- Built an NLP system to analyze user reviews and show main opinions about each movie.

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

[Repo](#)

- Developed two microservice APIs for therapist and patient management using Clean Architecture, EF Core, and SQL Server.
- Implemented event-driven communication with MassTransit and **RabbitMQ** for scalable, decoupled service interactions.
- Designed layered architecture with Domain, Application, Infrastructure, and Presentation layers for maintainability and separation of concerns.

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

[Repo](#)

- Developed an API platform using **.NET Core** to allow vendors to manage stores, menus, and orders on the Talabat system.
- Implemented **Redis caching** to boost performance and reduce redundant database calls.
- Used **SQL Server** for reliable data storage and efficient query execution.
- Designed scalable endpoints and ensured clean architecture for maintainability and future extensions.

Skills

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

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.