

Hazem Helal

Software Engineer

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Education

Fayoum University

Bachelor of Computer Science

1 July 2025

Fayoum, Egypt

- **Relevant Coursework:** Introduction to Programming, OOP, Data Structures and Algorithms, Discrete Mathematics, Prob & Stat, Software Engineering, Database, Database Design, Operating System, Computer Architecture, Artificial Intelligence, Machine Learning, Computer Network & Security

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.

Coach Academy

May 2021 – Aug 2023

Competitive Programming Training

Remote

- Developed strong problem-solving skills by practicing algorithms and data structures using **C++**.
- Solved challenges on platforms like **LeetCode** and **Codeforces**, enhancing proficiency in competitive programming.
- Participated in **ICPC Egypt**, applying learned techniques in real-world algorithmic competitions.

ACTIVITIES

Google DSC

Feb 2023 – May 2023

Problem-Solving Head

Fayoum, Egypt

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

Enactus FSB

Aug 2021 – Feb 2022

Design Member

Fayoum, Egypt

- 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.

Projects

CineMate | .NET, 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.

Talabat API Integration | .NET Core, C#, Redis

[Repo](#)

- Developed an integration 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.

Technical Skills

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

Technologies: .NET Core, Entity Framework Core, React.js, Tailwind CSS, RESTful APIs, MS SQL Server

Tools: Git, GitHub, Postman, Visual Studio, VS Code, Docker

Concepts: Object-Oriented Programming (OOP), Design Patterns, Data Structures & Algorithms, Competitive Programming, Backend Development, Database Design, Problem-Solving