




Hazem Helal

Software Engineer

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Education

Fayoum University

Bachelor of Computer Science

Expected May 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

Backend Course

Oct 2024 – Present

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

Competitive Programming Training

May 2021 – Aug 2023

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

Problem-Solving Head

Feb 2023 – May 2023

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

Design Member

Aug 2021 – Feb 2022

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 frontend 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.

Games Library | Tailwind, ReactJS

[Repo](#)

- Made a responsive game catalog app using **ReactJS** and **Tailwind CSS** for a clean UI.
- Used the **RAWG API** to get and show game details, ratings, and images.
- Added quick search and filtering options to help users find games easily.
- Improved app speed with code-splitting and lazy loading techniques.

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