Hazem Helal

Software Engineer

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Summary

- Computer Science graduate skilled in .NET Core, C#, RESTful APIs, SQL Server, and Azure, with top ECPC rankings and leadership in ICPC Club. Seeking internship or part-time software engineering roles.

Experience

Route | *Backend Trainee*   Oct 2024 – May 2025
- Developed backend services using **.NET Core** and **C#**, creating functional and maintainable code through practical projects.
- Built and tested **RESTful APIs** with **ASP.NET MVC** and **Entity Framework Core**, integrating with **SQL Server** to manage data effectively.

Projects

CineMate (Graduation Project) | *.NET 8, Next.js, Azure, Machine Learning*   Repo
- Led a team to achieve a **full mark** for a personalized movie recommendation platform, overseeing backend (.NET 8) and frontend (Next.js) development.
- Developed **.NET Web API** backend, designing entities, seeding a database with **87,000 movies**, and integrating external APIs for real-time movie updates.
- Enhanced **Next.js** frontend with streaming features, social media components (feeds, followers), and UI improvements, transforming the project to professional quality.
- Implemented a **machine learning hybrid recommendation system** and scraped data to populate the platform, deployed on **Azure**.

Therapist Platform | *.NET 9, SQL Server, RabbitMQ*   Repo
- Built **microservices** using **.NET 9** and **Entity Framework Core** with **SQL Server**, enabling therapist-patient interactions.
- Implemented event-driven communication using **RabbitMQ** for efficient service integration.

Talabat API | *.NET 8, SQL Server, Redis*   Repo
- Developed **CRUD APIs** for store, menu, and order management using **.NET 8**, with **Dependency Injection**, **Controllers**, and **JWT authentication**.
- Managed data with **EF Core**, using **DTOs & AutoMapper**, and optimized performance with **Redis caching** and async queries.
- Enhanced APIs with **Swagger documentation**, **pagination, filtering**, and scalable middleware for maintainability.

Skills

- **Programming Languages:** C++, C#, JavaScript, TypeScript
- **Frameworks & Tools:** .NET Core, Entity Framework Core, Next.js, RabbitMQ, Redis, Azure, Git, GitHub, Postman
- **Databases:** SQL Server, SQL Lite, MySQL
- **Other Skills:** RESTful APIs, Dependency Injection, JWT Authentication, Competitive Programming, Data Structures & Algorithms, Software Engineering Principles, Microservices
- **Soft Skills:** Team Leadership, Mentoring, Collaboration, Problem-Solving

Education

Fayoum University | *Bachelor of Computer Science*   Sep 2021 – Jun 2025
- Relevant Coursework: Programming, Object-Oriented Programming, Data Structures & Algorithms, Databases, Software Engineering.
- Achieved **Top 5** in first year (2022) and **Top 7** in second year (2023) in the Egyptian Collegiate Programming Contest (**ECPC**) at Arab Academy, demonstrating strong algorithmic and competitive programming skills.

Activities

ICPC Club, Fayoum University | *Mentor*   Sep 2023 – May 2024
- Mentored 10+ peers in competitive programming, leading Codeforces study sessions on algorithms & data structures to prepare for **ECPC** contests.
- Practiced on **Codeforces**, enhancing algorithmic thinking and coding efficiency.

Google Developer Student Clubs (DSC) | *PS Head*   May 2022 – Jun 2023
- Led and participated in **LeetCode** problem-solving workshops, enhancing skills in data structures and algorithmic solutions.
- Contributed to team-based coding projects, fostering collaboration and practical application of programming concepts.