

Mahmoud Mostafa

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Summary

I am a **Backend Developer** with experience in **.NET Core** development, specializing in building and maintaining scalable backend systems. With a strong foundation in **C#, Entity Framework, and SQL Server**, I have worked on developing robust RESTful APIs, implementing authentication and authorization mechanisms, and designing efficient databases. Experienced in working with teams, managing projects, and applying design patterns like **MVC** and **Onion Architecture**. Passionate about solving complex problems and delivering high-quality software solutions across various domains, including finance, e-commerce, and customer service systems.

EDUCATION

Faculty of Engineering, Tanta University – Tanta, Egypt
Bachelor of Engineering – Computer and Systems Engineering

Expected Graduation: July 2025

WORK EXPERIENCE

Backend Developer – Summer Intern

Banque Misr – Cairo, Egypt

July 2024 – September 2024

- Participated in a summer internship program focused on **Backend Development**, gaining hands-on experience in building and maintaining backend systems within the banking sector.
- Assisted in the development and optimization of internal tools and services **using .NET Core**.

- Supported various banking operations, including customer service systems and financial services, with a focus on backend architecture and database management.
- Worked on a real-world problem during the internship that inspired and contributed to the development of the graduation project, focusing on optimizing **service delivery through** a smart queue management system.

Backend Developer – Training Project (Route Academy)

March 2024 – May 2024

- Completed a hands-on training program at Route Academy focused on backend development using **.NET Core**.
- Developed RESTful APIs and implemented business logic using **C#, Entity Framework, and SQL Server**.
- Applied software architecture principles including **Onion Architecture** and **MVC Design Pattern**.
- Implemented authentication and authorization mechanisms using **JWT**.
- Followed clean code practices and utilized the **Repository Pattern** for better separation of concerns.
- Worked collaboratively in a team environment using **Git** and **Agile** development methodologies.

PROFESSIONAL SKILLS

- Strong knowledge of C# and .NET Core for backend development
- Building and consuming RESTful APIs
- Working with Entity Framework Core and LINQ for database access

- Implementing authentication and authorization using JWT
- Applying design patterns such as MVC, Repository Pattern, and Onion Architecture
- Designing and managing relational databases using SQL Server
- Writing clean, maintainable, and scalable code
- Version control using Git and GitHub
- Debugging, unit testing, and error handling in backend systems
- Working in Agile teams and using tools like Trello or Jira
- Familiarity with Postman for API testing and Swagger for API documentation
- Good understanding of dependency injection and middleware in .NET

LANGUAGE and Technologies

- Arabic
- English
- **Languages:** C#, SQL,C++,JavaScript
- **Frameworks:** .NET Core, Entity Framework Core, ASP.NET MVC
- **Databases:** SQL Server,
- **Tools:** Git, Postman, Swagger, Visual Studio
- **Authentication:** JWT, OAuth
- **Design Patterns:** MVC, Onion Architecture, Repository Pattern
- **Version Control:** Git, GitHub

VOLUNTEER EXPERIENCE

Google Developer Student Clubs (GDSC) – Tanta University, Tanta, Egypt*March 2023 – Present*

- Contributed to organizing tech events and workshops, helping students learn new technologies and improve their coding skills.
- Assisted in coordinating hackathons and coding challenges to encourage teamwork and innovation.
- Collaborated with industry professionals and university faculty to bring valuable learning opportunities to the student community.

Student Union – Tanta University, Tanta, Egypt*October 2022 – Present*

- Actively involved in student representation, working on initiatives to improve the student experience on campus.
- Organized events and activities to foster student engagement and build a supportive campus community.
- Collaborated with university administration to address student concerns and promote academic and extracurricular involvement.