**Mahmoud Mostafa**

Ashraf Street, Tanta ∙ mahmoud1.mostafa9.shehata3@gmail.com ∙ www.linkedin.com/in/mahmoud-moustafa-433287259

**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.