

# Shady Mohamed

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## Profile

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Experienced back-end developer specializing in ASP.NET Core, Entity Framework, and SQL Server, with a track record of building scalable enterprise solutions. Proven competitive programmer and ECPC finalist with advanced problem-solving skills in C++, C, and Python. Adept at delivering robust projects and collaborating in fast-paced, high-performance technical environments. Possess solid experience with front-end technologies such as HTML, CSS, JavaScript, Tailwind, and JQuery, enabling me to contribute effectively across the full stack and deliver seamless user experiences.

## Education

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2021 – 2025 **Bachelor of Computer Science**  
*Benha University - Faculty of Computers and Artificial Intelligence*  
GPA: 3.67 / 4.0  
Graduation Project: [Virtual E-Commerce](#) ↗

## Courses

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10/2024 – 05/2025 **Full-Stack .NET Development**  
*DEPI - ACICT*  
6-month intensive program focused on ASP.NET, Entity Framework, Unit Testing, and modern JavaScript frameworks.  
Graduation Project: [HR Management System](#) ↗

## Professional Experience

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07/2023 – 10/2023 **SCALE AI**  
Remote, USA *Competitive Coding AI Trainer*

- Contributed to the Dolphin Project by designing and solving complex coding challenges, directly enhancing the generative AI model.
- Completed 67+ coding tasks with 100% accuracy, improving the reliability of generative AI systems.
- Designed and executed comprehensive automated and manual test cases, improving model evaluation coverage.
- Contributed to performance improvements and error-reduction metrics by identifying model weaknesses and edge cases.

## Projects

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### Virtual E-Commerce

Graduation project focused on **virtual try-on** for products using AI, and included developing a robust backend system for an e-commerce platform using **ASP.NET Core**.

- **User authentication and role-based authorization** using **JWT** and **ASP.NET Identity**.
- Shopping cart and order management workflows.
- Customer feedback and ratings for products.
- Favorites functionality for merchants and products.
- **RESTful APIs** for all major entities: products, users, orders, shopping carts, and feedback.

**Source Code:** <https://github.com/Shady-Mo/E-Commerce> ↗

## HR Management System

HRMS is a comprehensive, web-based Human Resource Management System designed to streamline and automate HR processes for organizations of any size. The system is built using the MVC (Model-View-Controller) architectural pattern with a strong separation of concerns, enabling scalability and maintainability.

- **Secure user authentication and role-based authorization** with **ASP.NET Identity**.
- **Responsive and user-friendly interface** built with HTML, CSS, JavaScript, and Razor Views.
- MVC controllers provide endpoints for all major HR entities and processes.
- Integrated **Stripe payment processing** for secure online payments, supporting payroll and service transactions.

**Source Code:** <https://github.com/Shady-Mo/HRMS-DEPI> 

## Skills

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### Programming Languages

C#, C, C++, Python, Java, JavaScript, HTML, CSS

### Databases

Oracle, SQL Server

### Miscellaneous

Git, Shell, Bash

### Tools & Concepts

GitHub, Problem Solving, Competitive Programming, Data Structures, Algorithms, OOP, SOLID Principles, Design Patterns

### Frameworks & Libraries

ASP.NET Core, ASP.NET MVC, Entity Framework, Tailwind CSS, Bootstrap, JQuery, GSAP

### API Development & Payment Integration

RESTful APIs, Postman, Swagger, Stripe Payment

### Operating Systems

Windows, Linux

### Soft Skills

Communication, Teamwork, Leadership, Decision Making, Time management

## Certificates

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- DEPI Full-Stack .Net Web Developer 
- ECPC Finalist Contest 
- HackerRank Problem Solving 
- ECPC Qualification Contest 

## Languages

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### Arabic

Native

### English

Advanced

### Deutsch

Beginner