

# Gamal Abdulsalam Muhammed

Backend Developer

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## Profile

Computer Science student and .NET Backend Developer with a strong foundation in C#, ASP.NET, and SQL. Passionate about backend development, with practical experience in building APIs, managing databases, and ensuring high-quality, maintainable code. Eager to apply academic knowledge to real-world projects, while continuously learning and expanding skills in backend technologies. Focused on contributing to team success and delivering efficient, scalable solutions.

## Education

- **Mansoura University** 2021 – 2025  
Mansoura, Egypt  
*B.Sc. in Computer Science*

## Professional Experience

- **RouteAcademy** April 2024 – October 2024  
Cairo, Egypt  
*Training: .NET Backend Development*
  - Hands-on training in ASP.NET Core, C#, OOP, Advanced C#, LINQ, EF Core, MVC, Web API, SQL Server, Design Patterns, and SignalR with a focus on clean, scalable backend development.
- **ITI (Information Technology Institute)** July 2024 – October 2024  
Mansoura, Egypt  
*Summer Training: .NET Backend Development*
  - Trained in .NET technologies (C#, SQL, OOP, LINQ, EF Core, MVC) with hands-on experience building scalable web apps and managing databases through real-world projects.

## Projects

- **Inventory Management System (Freelance Project)**   
*Tools: ASP.NET Core, Entity Framework Core, Clean Architecture, CQRS, Unit of Work, In-Memory Caching, Swagger*
  - Developed a scalable backend inventory management system with role-based access (Admin, Inventory Manager) to manage items, purchase orders, expenses, stock tracking, returns, and disposals.
  - Implemented CQRS with MediatR, generic repository, unit of work, global error handling, in-memory caching for performance, Swagger API documentation, and comprehensive reporting endpoints.
- **Traffic Violation Management System**   
*Tools: ASP.NET Core, Entity Framework Core, Clean Architecture, CQRS, Unit of Work, Stripe, Audit Logging*
  - Developed a backend system with role-based access (Admin, Officer, Vehicle Owner) to manage traffic violations, vehicle registration, and user accounts.
  - Implemented Stripe payment integration for violation fees, Redis caching for performance optimization, and Audit Logging to track all system actions.
- **Ancient Aura API**   
*Tools: ASP.NET Core, Entity Framework Core, JWT Authentication, OTP*
  - Developed a RESTful API using ASP.NET Core, EF Core, and Onion Architecture with full CRUD for Egyptian history content (Sites, Books, Articles, Documentaries), JWT authentication, and OTP-based password reset.
  - Built a community feature enabling user interactions (posts, comments, reactions) and used EF Core for efficient data access and relational mapping.
- **Furniture Shopping App API**   
*Tools: ASP.NET Core, Entity Framework Core, JWT Authentication, Swagger*
  - Built a RESTful API using ASP.NET Core and Onion Architecture for e-commerce, with CRUD for products, categories, and orders, JWT authentication, shopping cart, order workflows, search features, and Swagger integration.

## Technical Skills

- **Programming Languages:** C#
- **Web Technologies:** ASP.NET Core, ASP.NET MVC, RESTful APIs, HTML, CSS
- **Database Technologies:** SQL Server, Entity Framework Core, LINQ
- **Programming Concepts:** Object-Oriented Programming (OOP), SOLID Principles, Design Patterns
- **Authentication & Security:** JWT Authentication, OTP-based Password Reset
- **Computer Science Fundamentals:** Data Structures, Algorithms

## Soft Skills

- **Communication:** Effective verbal and written communication skills
- **Collaboration:** Team collaboration and teamwork
- **Professional Skills:** Adaptability, Time Management, Critical Thinking, Creativity