

Khaled Hamada

Backend .NET Developer

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[LinkedIn](#) • [GitHub](#) • [Portfolio](#)

Profile

Fresh Backend .NET Developer graduate (June 2026) with hands-on project experience building secure, scalable RESTful APIs using ASP.NET Core and Entity Framework Core. Self-taught in Clean Architecture, JWT authentication, and database design through independent and team-based projects — including a production-style graduation system with 60+ API endpoints. Eager to bring strong problem-solving skills and a solid .NET foundation to a backend development role.

Education

Faculty of Computers and Information at Assiut University September 2022 - June 2026
Relevant coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Object-Oriented Programming, Computer Networks

Experience

Programming Instructor at Techno Stem, Assiut, Egypt June 2025 - October 2025
Taught programming fundamentals to young students, including basic logic, variables, and problem-solving concepts in a simplified and engaging way.

Guided students through hands-on problem-solving exercises, helping them develop logical thinking and step-by-step reasoning skills.

Skills

Languages: C#, SQL, C/C++, Python
Frameworks: ASP.NET Core Web API, ASP.NET Core MVC
Databases: SQL Server, MySQL, Entity Framework Core (Code First & Migrations), LINQ
Architecture: Clean Architecture, SOLID Principles, Dependency Injection, Repository Pattern
Auth & Security: JWT Authentication, Refresh Tokens, Role-Based Authorization, Middleware, API Security
Tools: Git, GitHub, Postman, Swagger / OpenAPI, Visual Studio, VS Code
Concepts: RESTful APIs, OOP, Data Structures & Algorithms, Scalability, Performance Optimization

Projects

Blood Bridge System (Graduation Project) • [Swagger UI](#)
Engineered a production-grade scalable backend system using ASP.NET Core Web API, following Clean Architecture principles with full separation across Data, Application, and API layers.

Designed and implemented secure authentication using JWT with refresh tokens and role-based authorization — covering API security and access control across all endpoints.

Designed a robust relational database using SQL Server with Entity Framework Core (Code First Migrations), LINQ queries, and optimized indexing for performance and scalability.

Built RESTful APIs adhering to HTTP standards: proper status codes, centralized exception handling middleware, model validation, and structured error responses.

Integrated Swagger / OpenAPI for complete API documentation; used Postman for endpoint testing and performance validation before deployment.

Furniture Enterprise System • [GitHub](#) • [Live Demo](#)
Developed a full-stack web application using ASP.NET MVC, applying the MVC architectural pattern for clear separation between Models, Views, and Controllers.

Implemented backend business logic and SQL Server database integration using Entity Framework Core, enforcing clean code standards and SOLID principles.

DR Compiler • [GitHub](#) • [Live Demo](#)

Built an interactive compiler from scratch in C# and .NET Framework, implementing lexical analysis, parsing, and basic semantic analysis — demonstrating deep .NET and C# fundamentals.

Applied advanced data structures and algorithms in a real-world system, reinforcing the problem-solving mindset required for backend engineering.

Languages

Arabic - Native

English - Conversational

Certificates

Summer Training — MEAN Stack (MongoDB, Express.js, Angular, Node.js) from NTI • [Link](#) September 2025

Gained full-stack development exposure including API design, database integration, and backend architecture patterns.