Mohamed Nabih

Software Engineer
(ASP.NET Developer)

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Summary

A Software Engineer specializing in .NET backend development. Proficient in C#, ASP.NET, and SQL Server. Experienced in Problem Solving and creating scalable solutions. Seeking opportunities for impactful contributions in a dynamic team environment.

EDUCATION

- **Faculty of Computer Science and Information System, Future Academy**   **Cairo, Egypt**
  Bachelor's degree in Computer Science   2020-2024
  - Graduation Project Grade: Excellent (A+)
  - Total GPA: Very Good (3.38)

WORK EXPERIENCE

- **Junior .NET Developer at Softic International**   **June 2024 – Present**
  - Developed and maintained web applications using Asp.NET, ensuring high performance and responsiveness for customers, using Clean Architecture and Design Patterns.
- **Freelance .NET Developer**   **August 2023 – June 2024**
  - Developed and maintained web applications using the .NET Core.

Activities

- **Coach at FEHU - CPC, Faculty of Engineering Helwan University**   **October 2023 – June 2024**
  - Trained more than 50 students at the Faculty of Engineering as a Coach in the ICPC Helwan University community, Helwan University.
- **Backend (.NET Developer), GDSC Future Academy Core Team**   **Sep 2023 – June 2024**
  - ASP.NET & Backend Instructor at Google Developer Student Club.
- **Founder and Leader of ICPC Future Academy, Future Academy**   **Sep 2022 – June 2023**
  - Established and led ICPC Community, Future Academy for the ICPC competitions and trained more than 150 students.
- **Head of Problem-Solving and Instructor, Pixels Egypt**   **Sep 2022 – June 2024**
  - Affected more than 100 students from different universities with the best practices as a problem-solving instructor

PROJECTS

- **Microservice - Shopping**   **[LinkedIn]**   **[GitHub]**
  - Designed and implemented microservices using ASP.NET Core Web API, Docker, RabbitMQ, MassTransit, and YARP API Gateway, following best practices in Domain-Driven Design (DDD) and Clean Architecture.
  - Developed Catalog, Basket, Discount, and Ordering microservices with CQRS pattern via MediatR, FluentValidation, and Vertical Slice Architecture, integrating PostgreSQL, Redis, SQLite, and SQL Server for database management.
  - Facilitated inter-service communication with high-performance gRPC protocols and asynchronous messaging using RabbitMQ's Publish/Subscribe model via MassTransit abstraction.
  - Streamlined deployment using Docker Compose for microservice and database containerization, applying YARP Reverse Proxy for routing, load balancing, and API rate limiting.

- **E-Commerce (Asp .NET 8 REST API & Angular).**   **[LinkedIn]**   **[GitHub]**
  - Developed E-Commerce with Clean Architecture principles , N-tier Architecture (3 Layers)
  - Integrated with Stripe payment gateway to securely process online payments.
  - Using Redis to improve performance by caching frequently accessed data (ex: Basket).

- **University Management System (ASP.NET REST API).**   **[GitHub]**
  - Developed University Management System with Onion Architecture (5 Layers), CQRS, and Mediator patterns.
  - Integrated Identity and Role Management with JWT Token and Refresh Token authentication
  - Utilized Fluent Validation, Filters, and advanced database techniques.
  - Supported multilingual functionality through Localization and Employed Serilog for effective error logging
  - Applied advanced database techniques like Views and Stored Procedures
  - Applied some tests using Unit Testing

➢ **MyBasket (.NET MVC).**   **[GitHub]**
   - Designed and implemented an E-commerce platform using Clean Architecture principles, N-tier Architecture (3 Layers).
   - Identity and User Management: Developed authentication and authorization systems with three roles (Admin, Editor, Customer), including lock/unlock user account functionality.
   - Implemented CRUD operations for products and categories, with search and pagination functionalities (Admin Role).
   - Ensured robust client-side and server-side validation and Utilized libraries like Toaster for user notifications.

➢ **Library System (Asp.NET REST API).**   **[GitHub]**
   - Developed a comprehensive library management system for Librarians and Normal Users.
   - Enabled Normal Users to register, search, and borrow books, ensuring seamless library experiences.
   - Empowered Librarians with CRUD functionalities, user account management, and report generation.

➢ **Chat App (SignalR & API)**   **[GitHub]**
   - Implemented real-time chat functionality using SignalR and .NET 8, enabling instant messaging between users with WebSocket connections

➢ **CAPSULE GAME (C#).**   **[GitHub]**
   - Developed a 3D Game using Unity 2021.

➢ **Cashat (Desktop Application Developed Using .Net 6 & C#).**   **[GitHub]**
   - Developed a desktop application management System using .NET 6 and C#, which can be used in factories or stores.

Technical SKILLS

- C#, C++, C, PYTHON, DART
- Asp .NET Core (MVC - Rest Api)
- LINQ, Entity Framework
- Microservices, RabbitMQ, Docker
- Domain Driven Design (DDD)

- Data Structures, Algorithms, OOP
- Solid Principles, Design Patterns
- HTML, CSS, JavaScript, Angular
- Problem Solving
- Clean Architecture

- SQL Server
- Agile Methodology
- Testing (Unit Testing)
- Git

ACHIEVEMENTS

- 2nd Place (integrated systems) - Geniuses Forum Scientific Exhibition Competition   2024
- Ranked 1st on Future Academy in ECPC   2023
- ECPC Finalist   2023

Languages

- Arabic (Mother Tongue)
- English (Very Good)

Personal Information

- **Date of birth:** August 30, 2002
- **Nationality:** Egyptian
- **Marital Status**: Single
- **Military Status:** Exempted