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Profile

Software Engineer and .NET Developer, graduate of Helwan University (2025). Proficient in designing and developing high-performance backend applications using C#, ASP.NET Core, Entity Framework, and SQL Server. Experienced in building RESTful APIs, secure authentication systems, and scalable database architectures. Strong analytical thinker, problem solver, and collaborative team player in agile development environments. Brings a creative, user-focused perspective through hands-on experience in branding, digital marketing, and visual design. Passionate about continuous learning and leveraging backend technologies to drive meaningful business outcomes.

Professional Experience

- **Completed the Route Diploma** 06/2023 - 11/2023
- **Digital Egypt Pioneers Initiative (DEPI)** 06/2024 - 10/2024
 - **Backend Developer Intern (.NET)** Contributed to backend development using **ASP.NET Core**, focusing on designing and implementing **RESTful APIs** and working with **SQL Server** through **Entity Framework**. Applied **Clean Architecture** principles, utilized **Git** for version control, and adhered to best practices for scalable backend solutions. Gaining in-depth knowledge of .NET backend development, including authentication, LINQ, and software design principles.

Education

- **Bachelor of Computer Science and artificial intelligence (2025)**

Graduated from Helwan University with 2.9+ GPA

Rawy Audiobook Platform – Graduation Project (A+) Developed a full-stack web platform for audiobook streaming and reviews. Implemented a personalized recommendation system (KNN with Flask) and an NLP-based chatbot trained on 2,000+ Egyptian dialect intents. Built a secure ASP.NET Core API for authentication and data handling, and a responsive React.js frontend with real-time updates via SignalR. Used MS SQL Server for backend data management.

Skills

Programming Languages:

- C#, JavaScript, C, Java

Databases:

- Microsoft SQL Server

Caching & Performance Optimization:

Redis, caching strategies for API performance

Streaming & Real-Time Communication:

- SignalR, ngrok tunneling, real-time event handling

Software Architecture:

- Design Patterns, Clean Architecture, 3-Tier Architecture, SOLID Principles

Version Control:

- Git & GitHub

Backend Development:

- ASP.NET Core Web API, ASP.NET MVC, Entity Framework, LINQ, SignalR

Frontend Development:

- HTML5, CSS3, Bootstrap, JavaScript

Cloud Platforms & DevOps:

- Google Cloud Platform (GCP), Docker, Hangfire

Soft Skills:

- **Soft Skills:** Self-Learner, Teamwork, Leadership, Problem Solving, Agile Methodologies

PROJECTS

Rawy Audiobook Platform

A full-stack web platform for streaming and reviewing audiobooks.

1. Recommendation System

- Developed a personalized recommendation engine using KNN collaborative filtering with Flask.
- Analyzed user activity and interactions to generate accurate, user-centric book suggestions.
- Integrated the recommendation model with the backend API and optimized for real-time response.

2. NLP-Based Chatbot

- Designed and implemented a custom chatbot trained on over 2000 labeled intents in Egyptian Arabic.
- Built a complete NLP pipeline for intent classification and natural language understanding.
- Integrated the chatbot into the platform to support real-time conversations and enhance user engagement.

3. Backend & Infrastructure

- Developed a secure ASP.NET Core API for authentication and data management, with JWT-based session handling.
- Implemented a user activity tracker to monitor behavior for analytics and recommendation tuning.
- Enabled real-time audiobook streaming using ngrok tunneling.
- Applied Redis caching to boost performance and reduce server load.
- Managed and stored platform data using Microsoft SQL Server.

4. Frontend Development

- Built a responsive and interactive frontend using React.js +vite.
- Integrated SignalR for real-time notifications and updates across the platform.
- Designed modern UI components for audiobook browsing, playback, user reviews, and chatbot interaction.
- Applied HTML5, CSS3, and Bootstrap to ensure a clean, accessible, and mobile-friendly interface.

Talabat(E-Commerce Application)

- Designed and developed the application using Onion Architecture to ensure clear separation of concerns and maintainability.
- Implemented a layered structure with Business, API, and Data Access layers, adhering to SOLID principles for clean and scalable code.
- Utilized the Repository Pattern and Unit of Work to streamline and optimize data operations.
- Implemented JWT-based authentication to secure API endpoints and efficiently manage user sessions.
- Handled concurrency control with isolation levels and row versioning to prevent stock conflicts during transactions.
- Integrated Stripe Payment Gateway for secure payment processing and order confirmation.
- Built features including Order Management, Shopping Cart, Product Display, Pagination, Advanced Filtering, and Product Search to provide a rich user experience.

Admin Dashboard with CRUD Operations (MVC)

- Developed an admin dashboard using ASP.NET MVC to manage users, products, and reviews.
- Implemented full CRUD (Create, Read, Update, Delete) functionality for effective data management.
- Ensured role-based access control and secure administrative workflows.
- Utilized MS SQL Server for backend data storage and management.
- Followed MVC architecture to separate concerns and maintain clean, scalable code.