Ahmed Abdulrahim

.NET Developer

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SUMMARY

A Computer Science student and **.NET developer** with expertise in building **Web APIs** and full-stack applications using **C#** and **ASP.NET Core**. Experienced in developing scalable solutions with **clean architecture**, including school management systems and learning platforms. Strong foundation in software engineering principles, **data structures**, and **algorithms** with competitive programming experience. Quick to adapt and team-oriented, eager to contribute to impactful software projects.

EDUCATION

Kafrelsheikh University   *Sep. 2021 – Expected Jun. 2025*
*Bachelor of **Computer Science** | Faculty of **Computers and Information***   *GPA: **3.2***

- **Relevant Coursework: Data Structures** & **Algorithms**, **Database Systems**, **Software Engineering**, **Operating Systems**, **Computer Networks**, **Web Development**
- **Academic Projects:** Developing **OllamaNet** as graduation project, a microservices framework for integrating **LLM** capabilities into .NET applications
- **Activities:** Member of University Programming Club, Participated in **ECPC 2022** & **2023**

TRAINING

DEPI   *Jun 2024 – Oct 2024*
Digital Egypt Pioneers Initiative   *Hybrid*

- Web Development **.NET Core** Framework Track.
- **Courses: Database Design**, **MS SQL Server**, **C#**, **EF Core**, **MVC**, **RESTful API**, **Security**, **Multithreading**, Business English.
- Developed **Learnflow**, an Online Learning Platform, as a final project.

ITI   *Jul - Aug & Sep 2024*
Summer Training   *Hybrid*

- Web Development **.NET Core** Framework Track.
- Completed a 20-day intensive training in **.NET Core**, covering **Database Fundamentals**, **C#**, **OOP**, **LINQ**, **Entity Framework**, and **MVC**.
- Developed a university management system as a final project using **Code First** and **CRUD** operations.

PROJECTS

OllamaNet – Microservices Framework | *Graduation Project* | ***ASP.NET Core** Web API Microservices*   ***2025***

A microservices framework for integrating **Ollama**'s **LLM** capabilities into .NET applications with distributed architecture.

- Architected a **microservices**-based framework with high availability and scalability using **ASP.NET Core**.
- Enabled streaming capabilities for **LLM** responses through **RESTful** web APIs, enabling **real-time text generation** and response handling.
- Implemented configurable **LLM** parameters including temperature and **model settings**, allowing API users to **fine-tune** response characteristics.
- Engineered distributed **caching** and **rate limiting** using **Redis**, improving response times and ensuring system stability.
- Designed and deployed comprehensive security measures including **JWT** authentication, role-based access control, and request validation.
- Constructed **API Gateway** using **Ocelot** for microservices orchestration, handling routing, **load balancing**, and request aggregation.

  Technologies: .NET Core, **Microservices**, **Redis**, **Ocelot**, **JWT**, **Git**

LearnFlow – Online Learning Platform | *.NET Developer* | *.NET Core – MVC Web App* — *October 2024*

An online learning platform for managing courses and quizzes while tracking student progress.

- Developed LearnFlow, a comprehensive online learning platform with role-based access control.
- Implemented a dynamic **quiz system** with support for multiple question types and automated scoring.
- Designed an **admin dashboard** for course management with analytics and progress tracking.
- Integrated a student progress tracking module with real-time grade updates.

  Technologies: **.NET Core**, **Entity Framework Core**, **SQL Server**, **JavaScript**, **MVC**, **Git**

Blood Bank Management System | Backend Developer | *C# - Windows Forms App* — *December 2023*

- Led development of a Blood Bank Management System for hospital blood inventory management.
- Implemented secure role-based access with **real-time inventory tracking**.
- Designed a scalable database architecture with **automated stock alerts**.
- Reduced blood request processing time through automated matching algorithms.

  Technologies: **C#**, **Windows Forms**, **SQL Server**, **Database Design**, **OOP**, **Git**

Holly View | *Back-end Developer* | *ASP.NET Developer* | *C# - Web Application* — *May 2023*

- Developed Holly View, an entertainment platform, with secure user authentication and authorization using **password hashing** to protect user data.
- Implemented a personalized **watch-list** feature to enhance user engagement.
- Designed a **review system** with sentiment analysis capabilities.
- Built an **admin panel** for movie management with content moderation features.

  Technologies: **ASP.NET**, **SQL Server**, **Authentication** & **Authorization**, **Git**

WORK EXPERIENCE

Mostaql — *Nov 2025 – Present*
Freelance .NET Developer — *Remote*

- Developed a **School Management System** Web API using **.NET Core** and **layered architecture**
- Designed and implemented a scalable **database schema** for managing student records, courses, and administrative tasks
- Implemented **clean architecture** with separate layers for **controllers**, **services**, and **repositories**
- Utilized **Entity Framework Core** for efficient data access and management
- Integrated authentication and authorization using **JWT** tokens for secure API access

Techno Kids & Techno Future — *Sep 2025 – Dec 2025*
Programming Instructor — *On-site*

- Instructed students in web development fundamentals including **HTML** and **CSS**
- Taught introductory programming concepts using **Scratch** programming language
- Developed and delivered engaging lesson plans for young learners
- Fostered a positive learning environment and mentored students in their programming journey

TECHNICAL SKILLS

Programming Languages	**C#** (Primary), **C++**, **SQL**, **HTML/CSS**, **Python**
Frameworks & Libraries	**.NET Core, ASP.NET MVC, Entity Framework Core, RESTful APIs**
Databases & Tools	**MS SQL Server, Git/GitHub, Visual Studio, Swagger UI**
Software Design	**OOP, Design Patterns, SOLID Principles, Clean Architecture**
Problem Solving	**Data Structures, Algorithms, Competitive Programming**
Soft Skills	**Leadership, Team Collaboration, Problem Solving, Communication**

CERTIFICATIONS AND ACHIEVEMENTS

- **Competitive Programming**

    - Ranked **32nd** out of 200 teams (top 16%) in **ECPC 2023** and **66th** (top 33%) in **ECPC 2022** Day 2 qualification contests
    - Active competitive programmer on **Codeforces** with 200+ solved problems using **C++** (Current rating: 971)

- **Professional Development**

    - **DEPI** - Digital Egypt Pioneers Initiative (*Jun-Oct 2024*): Completed comprehensive **.NET Core** development track, developed **LearnFlow** as final project
    - **ITI** - Summer Training (*Jul-Sep 2024*): Intensive 20-day **.NET Core** training with focus on **database design** and **web development**

- **Additional Certifications**

    - **InnovEgypt** - Entrepreneurship Training (*Sep 2022*): Completed 45-hour program and developed startup project proposal
    - **FWD** - Web Development Challenger: Advanced **HTML/CSS** certification & **Udacity** - Intro To Programming fundamentals

LANGUAGE SKILLS

- **Arabic**: Native Proficiency

- **English**: Professional Working Proficiency (Reading, Writing, Speaking)