Mahmoud Mohamed

Backend developer

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Profiles

○ Mahmoudmohamed125

in mahmoud-mohamed-9097a8280

Summary

I am a Senior Computer Science student at Nile University with a strong focus on backend engineering. I have hands-on experience developing scalable server-side solutions using .NET and a solid foundation in Django. My skill set includes Python programming and practical exposure to machine learning, enabling me to integrate intelligent features into backend systems. I follow Agile development principles to ensure efficient, high-quality software delivery and enjoy collaborating with cross-functional teams to create impactful, user-focused solutions. Passionate about backend development, I am eager to apply my knowledge and grow within a professional engineering environment.

Education

Nile university   **October 2022 – Present**
Computer Science, Specialization in Big Data   Bachelor's Degree
3.99

Dedicated student with strong academic performance and a passion for continuous learning and personal growth.

Experience

Telecom Egypt   **Jul 2025 -Present**
Backend Intern   Nasr City, Cairo

- Designed and implemented relational databases to improve data management.
- Developed backend applications in **C** using OOP, SOLID principles, and advanced C features.
- Built and consumed **RESTful APIs** with **ASP.NET Core MVC**.
- Utilized **LINQ** and **Entity Framework** for data querying and ORM operations.
- Applied **design patterns** for scalable, maintainable backend systems.

Projects

GradeA   **Feb 2023-March 2023**
A collaborative e-learning platform focused on accessibility, interactivity, and engagement
⊘ https://github.com/Mahmoudmohamed125/GradeA

Developed a full-stack e-learning system using React, Subspace, and PostgreSQL, supporting course

management, attendance logging, and student progress tracking.

• Implemented a secure authentication system with role-based access for students, instructors, and admins.

• Designed accessibility-focused features to enhance usability for users with disabilities.

Secure authentication system · Back-End Web Development · Continuous Integration and Continuous Delivery (CI/CD) · React.js · subapase · Database Management System (DBMS) · CRUD Operations · React.js · Subspace (custom server)

StockDB   **March 2025-June2025**
Database-Driven Stock Management System
⊘ https://github.com/AbdelRahmanRahal/StockDB

- Designed and developed a **full-stack inventory management platform** using **Node.js, React.js, and PostgreSQL**, enabling efficient tracking of products, suppliers, and stock movements.
- Implemented **role-based access control (Admin, Seller, Customer)** to ensure secure, tailored user experiences and permission handling.
- Built and integrated **RESTful APIs** for seamless communication between backend services and the frontend.
- Applied **user authentication and authorization** mechanisms to safeguard system data and enhance security.
- Optimized database queries with **PostgreSQL and SQLite**, ensuring reliable and scalable data management.

React.js · Node.js · PostgreSQL · SQLite · RESTful API Development · Role-Based Access Control · Authentication & Authorization · Database Management

Quran Digital Platform — Web-Based Application   **Jul 2025 - Present**
Developed a Quran web application with verse navigation, translations, audio playback, and user progress
tracking using RESTful APIs and database management

- Developed a **full-stack application** to provide Quran text retrieval, chapter/verse navigation, and translation search.
- Designed and implemented **RESTful APIs** for surah/ayah access, user bookmarks, and audio playback.
- Applied **database management** to structure Quran text, metadata, and multilingual translations.
- Integrated **user authentication and progress tracking**, enhancing personalization and accessibility.

React.js ASP.NET Core MVC · Entity Framework · SQL Server · RESTful APIs · Authentication & Authorization · Database Management · Audio Integration

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Skills

Backend Development: ASP.NET Core MVC · Django . Flask

Databases: PostgreSQL · MySQL · Sql Server

APIs & Integration: RESTful APIs · CRUD Operations · Authentication & Authorization · Role-Based Access Control (RBAC)

Software Engineering: OOP · SOLID Principles · Design Patterns · CI/CD Pipelines · Agile Development