

# Mohamed Ali Mohamed

BACK-END DEVELOPER (.NET)

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## Objective

Motivated fourth-year Computer Science student at Ain Shams University with strong experience in programming and web development. Proficient in .NET backend development and skilled in problem-solving. Eager to apply my technical expertise to real-world challenges.

## Education

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**UNDERGRAD STUDENT@ FACULTY OF COMPUTER SCIENCE** 2021 – present  
**(COMPUTER SYSTEM DEPARTMENT)**  
**AIN SHAMS UNIVERSITY**  
General Grade: Good

## Experience

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**Digital Egypt Pioneers Initiative** 6/2025 – present  
**Full Stack .NET Web Developer Trainee**

- Gained practical experience in Full-stack development using ASP.NET and Angular frameworks.
- Developed skills in frontend and backend integration.
- Enhanced key soft skills, including communication, career planning, and personal branding.
- Explored freelance opportunities and prepared for the job market through guided training.

## Skills & abilities

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- **Programming Languages & Frameworks:**  
Java, Python, C, C++, C#, SQL, MySQL, .NET Core, ASP.NET (WinForms), ASP.NET Core MVC, ASP.NET Core Web APIs, LINQ, Entity Framework.
- **Tools & Technologies:**  
Visual Studio, Eclipse, Git, GitHub, Jira, OpenProject, Microsoft Office, Google Workspace.
- **Development Methodologies:**  
Agile, Scrum.
- **Core Competencies:**  
Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Engineering Principles, Operating Systems, MVC Architecture.
- **Other Skills:**  
Project Management, Problem Solving, Probability & Statistics, Strategic Thinking, IT Operations.

## Activities

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- **Head of Scientific Committee** – Student Union (2024)
- **Head, Media Committee** – MSP
- **Member, Scouts Committee** – Student Union (2022)
- **Member, Media Committee, Linux Committee** – OSC
- **Member, Network Security Committee** – Cyberus Stud

## Projects

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### *Pacman Game*

- Developed a Pac-Man game in C++ using SFML, featuring multiple difficulty levels and ghost AI behaviors.
- Implemented a secure user authentication system with password hashing for data protection.
- **Designed a score tracking system to store and display top 3 scores for each user.**
- Built a GUI for menus, login, registration, and score display using SFML.
- Technologies: C++, SFML, hashing, file I/O, BFS algorithm.

### Examination System Database

- Developed a normalized database schema to store question pools, exam configurations, student answers, and results.
- Implemented stored procedures and functions for core system tasks, including exam creation, question selection (random and manual), and result calculation.
- Utilized views to provide structured access to data for different user roles (Training Manager, Instructor, Student).
- Ensured data integrity and security through the application of constraints, triggers, and SQL user permissions.

### *Task Management System*

- Implemented **JWT Authentication** with secure password hashing and login/register endpoints.
- Built RESTful APIs for managing users, projects, and tasks.
- Used **Dependency Injection**, **DTOs**, and **AutoMapper** for clean separation of concerns.
- Added **Unit Testing** using **xUnit**, **Moq**, and **FluentAssertions** to validate business logic.
- Integrated **Entity Framework Core** for data persistence with repository pattern.

## Courses

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**Foundations of Digital Marketing and E-commerce - coursera** Jan 2024 – Feb 2024

- Gaining practical skills in SEO, social media marketing, and data analysis.
- Building and managing online businesses, creating effective digital marketing campaigns, and growing a brand.

**ALUMNI @ NEXTCODERS TIEC - udacity** Jun 2019 – Dec 2019

- Completed a comprehensive course in HTML, CSS, JavaScript, and Python, focusing on building responsive web pages and dynamic web applications.
- Gained foundational knowledge in Python, including data manipulation and analysis, and front-end technologies like HTML, CSS, and JavaScript for creating interactive content.

## Languages

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- ARABIC: Native Speaker
- ENGLISH: B2
- DEUTCH: A2
- ITALIAN: A2