

# Youssef Mohamed Ali

## SOFTWARE ENGINEER

### CONTACT

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### EDUCATION

Bachelor of Computer Science  
Suez Canal University  
Ismailia  
Graduation | [Jan 2025](#)

### SKILLS

- Back-End C#, C++, .NET Framework, .NET Core, ASP.NET MVC, Razor Pages, WPF, Windows Forms
- Front-End HTML, CSS
- Database & ORM SQL, Entity Framework (Code First, Database First), ADO.NET, LINQ
- Web Technologies RESTful APIs, JWT Authentication, JSON, XML, Multi-Tenancy, Web Sockets (Signal R)
- Version Control Git, GitHub
- Testing Unit Testing, Integration Testing
- Architecture Patterns: MVC, MVVM, N-tier, Clean Architecture, Domain-Driven Design (DDD)
- Design Patterns Singleton, Factory, Repository, Unit of Work, Chain of Responsibility
- Principles SOLID, DRY, KISS

### CERTIFICATIONS

- .Net Web Development – ITI
- CS50x – edX (Harvard)
- Cloud Practitioner Essentials – AWS

### ACTIVITIES

- 1st Place – Fifth Student Research Conference, Suez Canal University | [May 2023](#)
- 3rd Place – Sixth Student Research Conference, Faculty of Science | [May 2023](#)

### LANGUAGES

**Arabic:** Native

**English:** Proficient

### SUMMARY

**Software Engineer** with expertise in **back-end** development, specializing in building scalable and robust web applications using **.NET** technologies. Proficient in working with Restful APIs, authentication systems, and database management. Proven ability to enhance system performance through code optimization, with a strong focus on applying software architecture principles.

### WORK EXPERIENCE

#### Backend Developer | CDMS (Custody Management System)

Suez Canal University | [Jul 2024 - Aug 2024](#)

- Developed a .NET Core 8.0 MVC application to manage custody items with multi-theme support, email notifications, and user management.
- Improved data retrieval efficiency by 25% through query optimization using Entity Framework.
- Integrated multi-tenancy architecture, reducing code redundancy by 40%.

#### Backend Developer | Daark Real Estate API

Freelance | [Feb 2024 - May 2024](#)

- Built a management system API using .NET Web API Core 7.0 for marketing teams, incorporating JWT-based authentication.
- Utilized the Entity Framework Core's Code-First approach to streamline database management.
- Implemented Auto Mapper for efficient handling of DTOs in API requests.

#### Developer | Cryptography Educational Project

Suez Canal University | [Apr 2024 - May 2024](#)

- Created a desktop application showcasing various cryptography algorithms, including Vigenère, Vernam, and Caesar.
- Enhanced usability through an intuitive UI and well-documented code.

#### Backend Developer | Task Management System

Freelance | [Apr 2024 - May 2024](#)

- Developed a .NET 8 MVC core app for student-teacher task management.
- Implemented role-based access control and JWT authentication to secure user sessions.

#### Backend Developer | E-Commerce API

Personal Project | [Feb 2023 - Mar 2023](#)

- Designed and implemented an e-commerce API using .NET Web API Core 7.0 with JWT-based authentication.
- Applied repository pattern and code-first Entity Framework to manage data persistence.
- Utilized Auto Mapper and DTOs to handle presentation-layer requests efficiently.

#### Backend Developer | Postgraduate Management System

Suez Canal University | [Jan 2023 - Feb 2023](#)

Developed an API to automate administrative tasks involved in managing postgraduate programs, improving overall system efficiency.