

# Mohamed Ahmed Mostafa

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## EDUCATION

### Zagazig University

Bachelor of Science in Computer Science

Expected May 2026

Zagazig, Egypt

- Coursework: Data Structures & Algorithms, OS, Distributed Systems, Compiler Design, Software Engineering.

## TECHNICAL SKILLS

Languages: C#, Python, C++, TypeScript, SQL, Go, HTML/CSS

Frameworks/Libraries: ASP.NET Core, FastAPI, Entity Framework, PyTorch, WebGPU

Tools/Databases: Git, Docker, CI/CD, Azure, Linux, SQL Server, PostgreSQL, Redis

Core Concepts: System Design, OOP, Design Patterns, Bit Manipulation

## LEADERSHIP

### Technical Instructor & Mentor

2025 – Present

ICPC Zagazig Community

Egypt

- Leading sessions on **Advanced DSA** for 100+ students; focusing on Dynamic Programming and Graph Theory.

## TECHNICAL PROJECTS

### Sarab - Tunneling Automation CLI | .NET 10, Cloudflare API, SQLite

2026

- Developed a **cross-platform CLI** using **.NET 10** to expose local services via **Cloudflare Tunnels**, automating DNS and ingress setup.
- Engineered **SSH tunneling support** to enable secure, public-IP-free remote access by automatically wrapping native SSH client connections.
- Implemented **SQLite** for multi-identity management and engineered a self-contained binary distribution for zero-dependency usage.

### BlitzMate Chess Engine | Python, FastAPI, Bit Manipulation

2025 – Present

- Built a Classical engine using **Alpha-Beta Pruning**, **Negamax**, and **Zobrist Hashing**.
- Optimized move generation using bitboards, achieving high-speed node evaluation for competitive gameplay.

### Bosla - AI Learning Platform | .NET 10, React, ONNX Runtime

2025 – Present

- Co-engineered a **.NET 10** backend using **Onion Architecture** and **Specification Pattern** to drive a personalized roadmap generator.
- Architected a real-time inference pipeline using **WebSockets** and **ONNX Runtime**, bridging the React frontend with high-performance classification models.

### Skyra - Weather Prediction | Python, FastAPI, LLM, NASA API

2025

- Developing a FastAPI backend for fetching metadata from **NASA APIs** for real-time environmental data processing.

### Villa Management System | ASP.NET Core, REST API, N-Tier

2025

- Developed a full-stack solution integrating a **RESTful API** with an **MVC** client, utilizing **N-Tier Architecture** for scalability.
- Implemented the **Repository Pattern** to decouple data access logic, enhancing testability and streamlining CRUD operations.

### Enterprise E-Commerce App | ASP.NET MVC, SQL Server, SOLID

2025

- Engineered a modular **MVC** application adhering to **SOLID principles**, optimizing order processing and product management.
- Structured the codebase using **N-Tier Architecture** and **Repository Pattern** to ensure strict separation of concerns.

## ACHIEVEMENTS & COMMUNITY

**Competitive Programming:** Solved 350+ problems on Codeforces/LeetCode (**Handle: Medo00**); Active ICPC member.

**Technical Content:** Creator of "**DarkCipher00**" (YouTube), teaching DSA and Algorithms to the Arabic community.

**Chess:** Ranked in the **top 5%** (1700+ Rating) on Chess.com; applying strategic game theory to software design.