

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, React, 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

2023 – Present

ICPC Zagazig Community

Egypt

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

TECHNICAL PROJECTS

WDLC (Web Deep Learning Compiler) | Python, TypeScript, WebGPU

2025

- Developing a high-performance runtime to execute **PyTorch models** in-browser via client-side GPUs.
- Engineered a compiler to parse computational graphs and optimize tensor operations for **WebGPU runtime**.

BlitzMate Chess Engine | Python, FastAPI, Bit Manipulation

2025

- 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 9, React, Onion Architecture

2025

- Designed a multilingual platform using **Onion Architecture** to generate dynamic learning roadmaps via Pipeline Application.

Skyra - Weather Prediction (Production) | Python, FastAPI, LLM, NASA API

2025

- Developing a FastAPI backend for fetching metadata about weather from **NASA APIs** for real-time environmental data processing.
- Engineered an **LLM-powered recommendation engine** to provide personalized safety alerts and weather insights.

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.