

Mohamed Ahmed Mostafa

+20 150 801 9645 | mohamed.ahmmed.dev@gmail.com | Obour, Egypt
[linkedin.com/in/mohamed-ahmed-mostafa](https://www.linkedin.com/in/mohamed-ahmed-mostafa) | github.com/meedoomostafa

EDUCATION

Zagazig University <i>Bachelor of Science in Computer Science</i> <ul style="list-style-type: none">• Coursework: Data Structures & Algorithms, OS, Distributed Systems, Compiler Design, Software Engineering.	Expected May 2026 <i>Zagazig, Egypt</i>
--	--

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 <i>ICPC Zagazig Community</i> <ul style="list-style-type: none">• Leading sessions on Advanced DSA for 100+ students; focusing on Dynamic Programming and Graph Theory.	2023 – Present <i>Egypt</i>
--	--------------------------------

TECHNICAL PROJECTS

WDLC (Web Deep Learning Compiler) <i>Python, TypeScript, WebGPU</i> <ul style="list-style-type: none">• Developing a high-performance runtime to execute PyTorch models in-browser via client-side GPUs[cite: 15, 19].• Engineered a compiler to parse computational graphs and optimize tensor operations for WebGPU runtime.	2025 – Present
BlitzMate Chess Engine <i>Python, FastAPI, Bit Manipulation</i> <ul style="list-style-type: none">• 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.	2025 – Present
Bosla - AI Learning Platform <i>.NET 9, React, Onion Architecture</i> <ul style="list-style-type: none">• Designed a multilingual platform using Onion Architecture to generate dynamic learning roadmaps via Pipeline Application.	2025 – Present
Skyra - Weather Prediction <i>Python, FastAPI, LLM, NASA API</i> <ul style="list-style-type: none">• Developing a FastAPI backend for fetching metadata from NASA APIs for real-time environmental data processing.	2025
Villa Management System <i>ASP.NET Core, SQL Server, AutoMapper</i> <ul style="list-style-type: none">• Engineered a high-concurrency RESTful API utilizing Asynchronous Programming to maximize server throughput and reduce thread starvation.• Implemented a decoupled architecture with DTOs and the Repository Pattern to ensure clean separation of concerns and data integrity.	2025
Enterprise E-Commerce API <i>ASP.NET MVC, Identity, SQL Server</i> <ul style="list-style-type: none">• Architected a scalable backend adhering to SOLID principles with Identity-driven RBAC for secure, enterprise-grade access control.• Designed robust order-processing logic utilizing the Unit of Work pattern to maintain atomic transactional integrity across complex workflows.	2025

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.