

Mohamed Ahmed Mostafa

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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>
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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.	2025 – Present <i>Egypt</i>
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TECHNICAL PROJECTS

Sarab - Tunneling Automation CLI <i>.NET 10, Cloudflare API, SQLite</i> <ul style="list-style-type: none">• 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.	2026
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 10, React, ONNX Runtime</i> <ul style="list-style-type: none">• 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.	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, REST API, N-Tier</i> <ul style="list-style-type: none">• 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.	2025
Enterprise E-Commerce App <i>ASP.NET MVC, SQL Server, SOLID</i> <ul style="list-style-type: none">• 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.	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.