

Mohamed Ahmed Mostafa

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EDUCATION

Zagazig University <i>Bachelor of Science in Computer Science – GPA: 3.1/4.0</i>	Expected Graduation: 2026 <i>Zagazig, Egypt</i>
<ul style="list-style-type: none">Relevant Coursework: Data Structures & Algorithms, Operating Systems, Soft Computing, Distributed Systems, Software Engineering, Machine Learning, Deep Learning, Compiler Design.	

EXPERIENCE

Software Engineering Intern (.NET Focus) <i>Information Technology Institute (ITI)</i>	2024 <i>Egypt</i>
<ul style="list-style-type: none">Completed an intensive 150+ hour engineering track focusing on enterprise backend development.Architected scalable backend systems using ASP.NET MVC and SQL Server.	

TECHNICAL PROJECTS

WDLC (Web Deep Learning Compiler) <i>Python, TypeScript, WebGPU</i>	2025 – Present
<ul style="list-style-type: none">Developing a Deep Learning inference engine for browsers, bridging the gap between high-level Python and low-level graphics hardware.Engineered a Python-based compiler to parse PyTorch models and extract computational graphs for optimization.Implemented a WebGPU runtime in TypeScript to execute tensor operations directly on client-side GPUs.	
BlitzMate Chess Engine <i>Python, FastAPI, Bit manipulation</i>	2025
<ul style="list-style-type: none">Built a high-performance chess engine implementing Alpha-Beta Pruning and Negamax algorithms.Optimized state management using Zobrist Hashing and Transposition Tables.Exposed engine logic via a fast UCI-compliant API using FastAPI, integrated with a Pygame GUI.	
Bosla - AI Learning Platform <i>.NET 9, React, Architecture</i>	2025 – Present
<ul style="list-style-type: none">Designed a multilingual educational platform that generates dynamic learning roadmaps based on user goals.Constructed a Onion Architecture API and a Python pipeline to aggregate resources in English and Arabic.	
Skyra - Weather Prediction Platform <i>Python, FastAPI, LLM, NASA API</i>	2025
<ul style="list-style-type: none">Developed a backend platform for weather events with LLM-powered recommendations and NASA API integration.	
Enterprise E-Commerce API <i>ASP.NET MVC, SQL Server, SOLID</i>	2025
<ul style="list-style-type: none">Developed a secure backend using SOLID principles, Repository Pattern, and Identity for complex order logic.	
Villa Management System <i>ASP.NET Web API, MVC</i>	2025
<ul style="list-style-type: none">Engineered a full-stack system with a RESTful API backend and MVC client application using asynchronous techniques.	

TECHNICAL SKILLS

Languages: C#, Python, C++, TypeScript, SQL, Go (Basics)
Backend Engineering: ASP.NET Core, FastAPI, Entity Framework, RESTful APIs
Data & AI: PyTorch, Deep Learning Concepts, SQL Server, PostgreSQL, Redis, LLM Integration
Systems & Tools: Git, Docker, CI/CD, Azure, Linux, WebGPU, Compilers
Core Concepts: Data Structures, Algorithms, OOP, Design Patterns, System Design, Memory Management

ACHIEVEMENTS & COMMUNITY

Competitive Programming: Solved 350+ problems on Codeforces/LeetCode; Active participant in ICPC community.
Technical Content: Creator of "DarkCipher00" (YouTube), teaching Algorithms and Data Structures to the Arabic community.
Mentorship: Mentor and Instructor for the ICPC Zagazig Community, training junior students in problem-solving.
Chess: Ranked top 5% (1700+ Rating) on Chess.com; applies game theory concepts to software strategy.