Adham Essam

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Profile

Passionate Software Engineer and Theoretical Computer Scientist Aspirant with a very strong problem-solving drive and deep love for mathematics and physics. Committed to lifelong learning and excited to contribute in the field.

Education

2021/09 – 2025/06	**Misr University for Science and Technology (MUST)** *Computer Science Bachelor's Degree* ⍈
2023/01 – 2024/03	**ALX Africa** *Softwre Engineering 9-Months Scholarship with 3-Months Back-End specilization* ⍈
	ALX Applied AI Exploring a variety of AI projects, crafted for real-world applications.

Work Experience

MUST Google Developers Students' Club
Technical Core Team Member & Vice-Head Of Community

MUST CPC
Ex-Leader Of Competitive Programming Community & Ex Head Of Coaches

4x ECPC Contestant, 3x ECPC Finalist ⍈
2023's certificate

Skills

C/C++ • Linux • Git • Python • Javascript • SQL • NoSQL • HTML & CSS • NodeJS • ExpressJS • Docker • LaTeX • Mathematics • AI (Introductory Level)

Languages

Arabic	**English**
Native Language	C1

Projects

2024/05 – present	**Problem Solving Repository** ⍈ a comprehensive collection of algorithmic solutions encompassing over 1000+ problems solved from various online judges and competitive programming platforms.
2024/11 – present	**SMSE** ⍈ Semantic Multimodal Search Engine is an open-source search engine that leverages semantic understanding and multi-modal data processing to deliver more context-aware search results enabling users to retrieve information that aligns more closely with their intent. The project is accompanied by research papers detailing the theoretical foundations, models, and experiments that guided its development.
2024/02 – 2024/03	**cmless** ⍈ CMless is a lightweight headless Content Management System.

2023/11	**Clndr** ⧉
	Meet Clndr, the group meeting scheduler for everyone. Focus on meeting, not making meetings. Free and open source.
2023/09	**AirBnB Clone** ⧉
	a backend clone of the AirBnB platform, featuring a MySQL database, Flask web framework, and ORM via SQLAlchemy. It supports dynamic web content and automated deployment with Fabric.
2023/05	**Monty** ⧉
	It is an interpreter for Monty Bytecode Files
2023/04	**Simple Shell** ⧉
	It is a simple UNIX command interpreter (shell) program that stimulates the functionalities of a Unix shell. Additional functions are also included.