Mawadda Gaber

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Summary

Computer Science student with a solid foundation in object-oriented programming, data structures, and algorithmic logic. Possesses a fast-learning mindset and a strong drive to specialize in backend development and database management.

Education

B.Sc. in Computer Science, Faculty of Computers and Information, Suez Canal University — Aug 2024 - Jul 2028
GPA: 3.5/4.00
Coursework: Data Structures, Algorithms, OOP, Database, Math (Calculus, Linear Algebra, Statistics & Probability)

Open Source

Passionate about open-source software and eager to grow within the developer ecosystem. Recently started contributing to GitLab by resolving simple issues, gaining practical experience with collaborative Git workflows and community-driven development.

Projects

Azkari | *HTML, CSS, JavaScript, Flask, SQLite* — 2026 | GitHub

- Built a full-stack, mobile-responsive web application using Python, Flask, and JavaScript to facilitate daily Azkar tracking and interactive counter management.
- Designed and integrated an SQLite database with dynamic sessions and Werkzeug-hashed authentication for secure, user-specific data persistence.
- Developed a clean frontend UI with real-time state management, interactive reset functionalities, and cross-device optimization.

Linear Bits | *MATLAB* — 2026 | GitHub

- Developed an interactive MATLAB GUI application to simulate, evaluate, and track error-correcting linear block codes in real-time.
- Implemented robust encoding and decoding algorithms utilizing matrix operations and algebraic logic for automated error detection and correction.
- Designed dynamic system features to simulate transmission errors within binary message streams and evaluate seamless data recovery.

Achievements & Certifications

- Participated in ECPC Qualifications and ranked 69th place — ICPC ID | Aug 2025
- Achieved the Pupil rating tier (1200+), Ranked 19th university-wide on Codeforces. — National Rank
- Solved 1500+ algorithmic problems across competitive programming platforms. — LeetCode | Codeforces | Atcoder
- **Certifications:** Introduction to Computer Science CS50x (Harvard University). — CS50x Credential | Mar 2026
- **Certifications:** Problem Solving (Basic) (HackerRank). — HackerRank Credential | Aug 2025

Skills

Languages: C/C++, Java, Python, JavaScript, SQL, MATLAB, HTML/CSS.
Frameworks & Libraries: Flask, Pygame.
Tools & Databases: SQLite, Git, GitHub, VS Code, Linux.
Core Concepts: Competitive Programming, Problem Solving, Clean Code.

Volunteer Experience

ICPC SCU Community | *Mentor and IT Member* — 2024 - Present

- Mentored peers in foundational competitive programming, data structures, and standard algorithms.
- Administered technical IT support and infrastructure assistance for community training sessions.
- Coordinated local problem-solving sessions to prepare junior members for competitive contests.
- maintained an open-source GitHub repository, optimized algorithmic code templates. — GitHub