

Mohamed Ayman Khodeir

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EDUCATION

Misr University for Science and Technology
Bachelor of Science in Computer Science

Giza, Egypt
Sep 2024 – Jun 2028

EXPERIENCE

Freelance Software Engineer

Jun 2026 – Present

Client: Akhbar Elyom Academy

Giza, Egypt

- Developed and launched a **Flutter** mobile app on the [Play Store](#) for **3,000+** students to track grades natively.
- Built a **FastAPI** backend on **OCI** to process database schemas, handling **60K+** API requests in under a month.
- Integrated the **Supabase client library** to efficiently query core tables, profiles, and relational records.
- Secured endpoints with **JWT** auth, **rate limiting**, and a **Cloudflare** reverse proxy with WAF protection.

PROJECTS

Flexify - Wallpapers & Widgets | [GitHub](#) | [Overview](#)

Nov 2024 – Present

Tools: Flutter, Firebase, Python, FastAPI, SQL, Cloudflare, Shorebird, OCI

- Launched a **Full-Stack** mobile app with **40K+** total installs and a sustained **4.9** rating on [Play Store](#).
- Architected **MVVM**-based **Flutter** layers with **Provider** & local **SQLite**, achieving a **0.05%** crash rate.
- Engineered and deployed a **FastAPI** backend on OCI serving and caching **1.6K+** asset files, handling monthly peak of **1.4M+** API requests and **150GB+** data served with **99.9%** uptime.
- Integrated **Firebase** services, **Shorebird** OTA updates, and **Cloudflare** for CDN caching and DDoS protection.

ShinAI - Conversational AI Agent | [GitHub](#) | [Overview](#)

Jan 2026 – Present

Tools: Python, Vector Databases, Docker, Async Processing

- Built a configurable multi-platform AI agent that lives in **500+** chat groups, handling **100K+** interactions.
- Designed a **RAG** memory system with semantic search & **MMR** re-ranking for diverse, relevant retrieval.
- Developed a **native function-calling** loop letting the AI autonomously trigger moderation, search, & messaging.
- Implemented multi-provider AI failover with retry logic to **maintain service availability** during API outages.

AWARDS & ACHIEVEMENTS

2nd Place, Digitopia Competition by MCIT

Nov 2025

2nd out of 6,500+ teams in Egypt's largest tech competition with [Athr](#), a threat intelligence platform.

Global Nominee, NASA Space Apps Challenge

Oct 2025

Top 10% of 18,800+ teams in the world's largest hackathon with [Astro Lens](#), an AI solution for space research.

Top 4 University Team, ECPC Qualifications

Jul 2025

Placed 4th among all of my university teams in the prestigious regional competitive programming contest.

TECHNICAL SKILLS

Languages & Frameworks: Flutter, Dart, FastAPI, Python, C++, SQL, SQLite

Tools & Infrastructure: Git, Docker, Firebase, OCI, Cloudflare, Nginx, Linux, Shorebird, Postman

Concepts: OOP, Data Structures, Algorithms, RAG, Cloud Architecture, RESTful APIs, MVVM, CI/CD, Async

EXTRACURRICULAR ACTIVITIES

Competitive Programming Coach

Oct 2025 – Present

MUST ICPC Community

- Training **70+** students in problem-solving, data structures and algorithms using C++
- Judging in competitive programming contests and mentoring teams on strategies and code optimization.

Full-Stack Mobile Instructor

Sep 2025 – Jan 2026

MUST Google Developer Groups on Campus

- Instructed **20+** students in Flutter, Firebase, & FastAPI through interactive sessions.
- Designed technical curricula and fostered student growth through leadership and direct mentorship.