

Mohamed Ayman

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Education

Misr University for Science and Technology (MUST), BS in Computer Science Sep 2024 – May 2028
• **Coursework:** Computer Architecture, Operating Systems, OOP, Data Structures & Algorithms

Projects

Flexify - Wallpapers & Widgets | github.com/MAYman007/Flexify Nov 2024 – Present

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

- Launched a full-stack mobile app serving **30,000+ users** with a sustained **4.9+ rating** on Google Play.
- Applied **OOP** design patterns in **Flutter** to build scalable UI components with efficient **state management**.
- Engineered and deployed a **Python (FastAPI)** backend on Oracle Cloud (OCI Linux VPS) with **SQLite**, caching, and algorithmic image analysis, handling **2M+ monthly** API requests with **99.9% uptime**.
- Integrated **Firebase** services, **Shorebird** OTA updates, and **Cloudflare** for CDN caching and DDoS protection.

ShinTube API | github.com/MAYman007/ShinTube-API Aug 2025 – Sept 2025

Tools Used: Python, FastAPI, Docker

- Built and deployed a **Python (FastAPI)** backend with **10 RESTful endpoints**, enabling programmatic access to YouTube search, metadata, channels, playlists, comments, and subtitles.
- Designed a **modular, layered architecture** to separate concerns & cutting code duplication by **30%**.
- Implemented **asynchronous programming**, improving response time by **40%** under concurrent load.
- Containerized with **Docker & Docker Compose** for reproducible deployment.

Hadith Searcher | github.com/MAYman007/HadithSearcher Oct 2023 – Aug 2024

Tools Used: Flutter, Dart, SQL

- Built a **Flutter** app for advanced hadith search, earning a **5.0 rating** from **400+ users** on Google Play.
- Designed and implemented efficient **search algorithms** and **SQLite indexing**, improving query speed by **35%**.
- Applied **OOP principles** and problem-solving techniques to enable isnad verification and filtering features.
- Deployed & consumed a self-hosted **RESTful API** for scalable and reliable query handling.

Skills

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

Developer Tools: Git, GitHub, Docker, Linux, VS Code, Visual Studio

Cloud & Infrastructure: Firebase, AWS, Oracle Cloud (OCI), Cloudflare, Nginx

Concepts: OOP, Data Structures, Algorithms, System Design, CI/CD, Databases, RESTful APIs, Agile, Cloud

Extracurricular Activities

- **MUST ICPC Coach** Sep 2025 - Present
 - Training **60+** students in **problem solving, advanced algorithms** and **data structures**.
 - Mentoring teams on **competitive programming strategies** and code optimization for contests.
- **MUST GDG on Campus Instructor** Sep 2025 - Present
 - Instructing **30+** students in **Flutter, Firebase, & FastAPI** through interactive sessions.
 - Fostering student growth through **technical leadership**, code reviews, and direct mentorship.
- **ECPC Qualifications (2025):** Achieved **4th place** university finish, demonstrating **C++ problem-solving** skills.