

BARAA MABROK

Egypt | [LinkedIn](#) | [GitHub](#) | +20 1064925971 | baraa0email@gmail.com

SUMMARY

Flutter Developer and UI/UX Designer with hands-on experience designing, building, and shipping production mobile apps. Led Flutter training track at IEEE for **30+** students. Experienced with clean architecture, BLoC, Riverpod, Supabase, and Firebase. Currently developing and publishing a full e-commerce app to Google Play.

SKILLS & INTERESTS

Skills: Flutter, Dart, Clean Architecture, BLoC, Riverpod, Provider, Supabase, PostgreSQL, Firebase, Figma, RESTful APIs, Git, Python, JavaScript.

WORK EXPERIENCE

IEEE Computer Science Chapter

Instructor & Head of Flutter Track

2025 – Present

- **Led Flutter development track**, designing comprehensive curriculum and training materials for **30+ students**.
- Conducted **weekly technical workshops** on Flutter, Dart, state management, and **Firebase** integration.
- **Mentored students** through hands-on mobile app projects, guiding them from concept to deployment.
- Organized coding sessions and hackathons to enhance practical development skills.

Digital Egypt Pioneers Initiative (DEPI)

Flutter Development Trainee

June 2025 - December 2025

- Developed **cross-platform mobile applications** using Flutter and Dart with **clean architecture** patterns.
- Implemented Firebase integration, state management (BLOC, Provider), and RESTful API consumption.
- Built production-level applications with advanced UI/UX design and responsive layouts.

PROJECTS

Rahma Store (freelance)

- Developed a complete Arabic-first offline e-commerce application allowing users to seamlessly browse products, manage carts, and place orders.
- **Offline-First "Smart Sync"**: Engineered a **delta-sync architecture** for instant, connection-free access and integrated **Firebase** push notifications to maintain user engagement.
- **WhatsApp Visual Checkout**: Bypassed costly payment gateways by engineering an innovative engine that renders user orders into images using **Flutter Canvas** for direct store owner communication.
- **Culturally-Aware Search**: Developed an Arabic search engine with aggressive performance optimizations including lazy-mounting and scroll-paused rendering local first having **zero load on backend**.
- Performance: Achieved a **flawless 120fps UI** throughout the shopping experience using strictly scoped state and dynamic rendering techniques.
- UI/UX: Designed and implemented engaging onboarding screens and **smooth custom animations** throughout the application.
- Technologies: Flutter, Dart, Riverpod, Supabase, Firebase. ([GitHub Link](#))

Healthy Scan (DEPI Graduation Project)

- Developed cross-platform Flutter app for scanning product **barcodes to retrieve instant nutritional** information and allergen alerts.
- Integrated barcode scanner and REST API for real-time product recognition and nutritional data.
- Technologies: Flutter, Dart, Firebase, Barcode Scanner, Provider. ([GitHub Link](#))

Cloud-Snap (CDN URL Generator)

- Developed a serverless CDN URL generator that uploads images/videos to a GitHub repository, leveraging jsDelivr for globally **cached**, permanent, commit-pinned URLs.
- Currently using this self-hosted CDN as the main backend for **Rahma Store** to manage images.
- Implemented a public API and a Neo-Brutalism UI with drag-and-drop, multi-file upload, and a file browser. ([GitHub Link](#))
- Deployed the project to **Cloudflare**, making it completely **cost-free**.

News Snap (Personal Project)

- Built cross-platform news app with category browsing, full-text search, and in-app WebView for article reading. Designed **custom animated UI** with swipeable card stack and smooth transitions.
- Technologies: Flutter, Dart, Dio, WebView, REST API. ([GitHub Link](#))

CERTIFICATIONS & LANGUAGES

Certifications:

- Flutter Advanced Course - BLoC and MVVM
- Complete Flutter & Dart Development Course
- Mastering Flutter: Responsive & Adaptive UI Design
- Deep Dive into Clean Architecture in Flutter
- Others for technical workshops and developer contests.

Languages:

- Fluent in Arabic and English

EDUCATION

Misr Higher Institute

Bachelor of Computer Science

Egypt

Expected Jun 2027

- GPA: **3.40/4.0**
- Relevant coursework: Programming Fundamentals, Data Structures, Software Engineering, Mobile Application Development, UI/UX Design.