BARAA MABROK

Egypt | Portfolio | LinkedIn | GitHub | +20 1064925971 | baraa0email@gmail.com

SUMMARY

Flutter Developer focused on shipping polished production mobile apps with **Clean Architecture**, **Riverpod/BLoC**, and **Firebase**. Published **Rahma Store** to Google Play with offline-first sync, push notifications, and high-performance UI. Led Flutter training for **30+** students at IEEE CS Chapter. Comfortable owning end-to-end mobile features—from architecture and state management to Firebase services and release.

SKILLS & INTERESTS

Skills: Flutter, Dart, Clean Architecture, Riverpod, BLoC, Provider, Firebase (Auth, FCM, push notifications), Supabase, PostgreSQL, RESTful APIs, Git, System Design, UI/UX Design (Figma), AWS, DevOps, Linux, 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**—experience building and guiding an engineering learning team.
- Conducted **weekly technical workshops** on Flutter, Dart, state management (**BLoC**, Provider), Clean Architecture, 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 — production on Google Play) Google Play | GitHub

- Owned end-to-end delivery of a complete Arabic-first offline e-commerce app: browse, cart, orders—published to **Google Play**.
- **Offline-First "Smart Sync"**: Engineered a **delta-sync architecture** for instant, connection-free access and integrated **Firebase** push notifications (FCM) to maintain user engagement.
- **WhatsApp Visual Checkout**: Engineered an innovative engine that renders user orders into images using **Flutter Canvas** for direct store-owner communication.
- **Culturally-Aware Search**: Arabic search with lazy-mounting and scroll-paused rendering; local-first with **zero load on backend**.
- Performance: Achieved a **flawless 120fps UI** using strictly scoped state (**Riverpod**) and dynamic rendering.
- Technologies: Flutter, Dart, **Riverpod**, Supabase, **Firebase**.

Waslha (Delivery Platform) Download APK | Website

- Built a complete delivery platform where anyone posts an order and nearby drivers claim it: **merchant, driver and sales-rep apps** from one Flutter codebase, plus a **Next.js** admin dashboard.
- **Secure Pricing**: Orders are created only through **Cloud Functions** that price each job from real road distance, with Firestore rules blocking client writes, so fees cannot be tampered with.
- **QR Proof of Delivery**: One-time QR code per order; the driver's scan closes the order on the server. Open jobs are filtered by live driver location and vehicle type, with Arabic-first RTL UI.
- Technologies: Flutter, Dart, **Riverpod**, **Firebase**, Cloud Functions, Google Maps, Next.js.

Supporter (Group Campaign Engine) Download APK | GitHub

- Engineered invite-code groups with admin/member roles and multi-link campaigns across platforms.
- Cached group data with persistent tabs, integrated **Firebase** push notifications, and built a cross-group feed.
- Technologies: Flutter, Dart, **Firebase**.

Healthy Scan (DEPI Graduation Project) GitHub

- Cross-platform Flutter app for barcode scanning with REST API nutritional data and allergen alerts.
- Technologies: Flutter, Dart, **Firebase**, Barcode Scanner, Provider.

Tasky (Offline Productivity App) Download APK | GitHub

- Local-first AppState with auto-save; Material 3 theming and multi-step onboarding.
- Technologies: Flutter, Dart, Material 3, Lottie.

News Snap (Personal Project) Download APK | GitHub

- News app with category browsing, search, WebView, and custom animated UI.
- Technologies: Flutter, Dart, Dio, WebView, REST API.

Cloud-Snap (CDN URL Generator) GitHub

- Serverless CDN URL generator for Rahma Store media; deployed to Cloudflare cost-free.

CERTIFICATIONS & LANGUAGES

Certifications:

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

Languages:

- Fluent in Arabic and English

EDUCATION

Misr Higher Institute **Egypt**

Bachelor of Computer Science *Expected Jun 2027*

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