

Abdallh Mostafa

Flutter Developer

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GitHub | YouTube Channel | **My Website**

Summary

Flutter Developer with more than 2+ years of experience building and optimizing production mobile apps across enterprise, HR, medical, and B2B domains. Strong in Clean Architecture, BLoC, CI/CD, and performance optimization. Proven track record of improving crash rates, startup time, and maintainability while collaborating in cross-functional teams. Experienced in AI tools for fast delivery

Experience

Flutter Developer @ SISMATIX Information Technology Kuwait, Remote Full-time Aug 2025 - Present

- Worked on enterprise and operational apps with a focus on architecture, performance, release engineering, and production stability. Collaborated with backend developers, QA engineers, designers, product managers, and business analysts.
- **Matix POS | Demo** - Will publish soon
 - Architected a production Flutter POS system using **Clean Architecture** with strict layer separation, serving a multi-tenant retail and F&B platform on Android and iOS.
 - Implemented a hybrid search engine combining instant fuzzy matching, debounced remote API fallback, **LRU caching**, and CancelToken race condition prevention, delivering **instantly results** on cached data with graceful offline degradation.
 - Delivered **106 test files** across unit, widget, and integration layers. Configured a multi-environment CI/CD pipeline with **Codemagic** (Android/iOS), **SonarCloud** static analysis on every PR, **Shorebird OTA** code push, and **Code Review Tools**.
 - Built a **thermal printer service** supporting WiFi TCP sockets and BLE discovery, with 15-second heartbeat, auto-reconnect, and a sealed failure model with stage/kind/cause properties.
- **Matix Attendance | Google Play - App Store**
 - Built an enterprise attendance app with background location tracking, **geofencing**, and **real-time verification**, reducing manual attendance tracking **errors by 70%**.
 - Implemented high-reliability workflows including selfie verification, **VPN detection**, **device binding**, secure authentication, and **offline-aware synchronization**.
 - Owned end-to-end mobile architecture using Clean Architecture, Cubit, Shorebird OTA updates, and Fastlane CI/CD, achieving a 99% crash-free rate.
- **Matix Suppliers Hub | Google Play - App Store**
 - Built and shipped a cross-platform B2B supplier management app serving 50+ vendors, maintaining a 100% crash-free rate across 8+ production releases, and Feedback methods.
 - Owned the full mobile delivery lifecycle from architecture, CI/CD integration with Fastlane, engineered a performant caching, and Firebase Crashlytics.
- **Matix Laundry | Google Play**
 - Architected the mobile application structure, defining scalable project organization, state management direction, and maintainable Flutter implementation patterns.
 - Contributed to technical decisions around **performance**, **feature scalability**, and **production-readiness** for operational mobile workflows.

Flutter Developer @ ellaithy Auto Group - Cairo, Egypt - Full-time

Nov 2024 - May 2025

- Worked on production apps for automotive and HR operational workflows, with strong focus on refactoring,

crash reduction, and performance optimization.

- **ellaithy App | Demo - (Internal Business App - Not Published)**

- Inherited and stabilized a production app serving **500+ users**, eliminating major crash issues, reducing startup time from 3-5 seconds to under **1 second**, and resolving 10+ critical production bugs.
- Optimized API handling and added offline caching with pagination for large datasets, reducing screen load times from about 2 seconds to under 1 second.
- Maintained a multi-role B2B operational platform with Clean Architecture, BLoC, Firebase push notifications, GPS tracking, PDF viewing, bilingual localization, and **chat-bot integration**.

- **ellaithy HR App | Demo - (Internal Business App - Not Published)**

- Stabilized a production Flutter HR app **servicing 500+ employees** by refactoring the codebase and resolving critical **bugs across 15+** feature modules, reducing crash rate from roughly 60-70% to **below 10%**.
- Maintained real-time Firebase sync, NFC and biometric attendance workflows, and geolocation verification.
- **Refactored and improved** maintainability and reliability across attendance, payroll, leave, chat, tasks, awards, and support ticket modules.

Freelance Flutter Developer - Remote - Freelance

Jan 2025 - Present

- **Taggz | Google Play**

- Contributed to a photo-sharing and event-memory platform that enables secure photo uploads, attendee access, and face-recognition-based photo discovery.
- Resolved critical production issues across crash-prone flows, improved runtime performance, and fixed payment-related problems to stabilize the user experience.

- **IRAM TAG | Not Published - Demo**

- Built a multi-role app supporting admin, client, and engineer workflows, including authentication, project requests, offers, profile management, notifications, and chat features.
- Built offline-aware project and chat flows using encrypted caching.
- Supported real-time communication features with Socket.IO, structured error handling, and production monitoring workflows using Sentry, GitHub Actions, Fastlane, and Firebase App Distribution.

Junior Flutter Developer @ Alhayat - Cairo, Egypt - Full-time

Aug 2024 - Nov 2024

- **Alhayat App | App Store**

- Contributed to feature implementation and production maintenance for a live medical mobile application; supported ongoing development rather than building the app from scratch.
- Improved application stability, maintainability, and production quality through debugging, testing support, and iterative enhancement.

Skills

Mobile Development: Flutter, Dart, Android, iOS, Agile, SDLC.

Architecture & State Management: Clean Architecture, MVVM, feature-first architecture, BLoC, Cubit, Provider, GetX, Repository pattern, SOLID Principles, Design Patterns.

AI-Assisted Development: AI-assisted planning, AI-assisted implementation, AI-assisted code review

Backend & Integrations: REST APIs, GraphQL, Firebase, WebSockets, JWT authentication.

Mobile Features: Maps, geolocation, geofencing, camera, notifications, background services, platform channels, biometric authentication, encrypted local storage, caching, offline-first flows, Flavors.

Testing & Quality: Unit testing, widget testing, integration testing, debugging, crash analysis

DevOps & Release Engineering: CI/CD, Fastlane, Codemagic, GitHub Actions, Shorebird

Monitoring & Analytics: Firebase Crashlytics, Firebase Analytics, Sentry, Remote Config.

Education & Languages

Education

Bachelor's Degree in Computer and Information
Damanhour University
2020 – 2024
GPA: 3.3/4.0 (B+)

Languages

Arabic: Native
English: Professional
Proficiency (B1)