Abdallh Mostafa

Mobile Application Developer

Cairo, Egypt "Open to relocation" | abdallhelrabiey255@gmail.com | +20 1006257074 | LinkedIn | **Portfolio**

GitHub | YouTube Channel

Summary

Flutter Developer with 3+ 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

Mid-level Flutter Developer @ ***AppRoc*** - Cairo, Egypt - Hybrid - Full-time — Sep 2026 - Present

- AppRoc develops custom software and digital solutions for government and enterprise clients.
- **Egyptians Abroad** | ***Google Play*** | ***App Store*** | ***Official Ministry Portal***
  - Consular-services application for Egypt's Ministry of Foreign Affairs, currently supporting **54+ consulates** and **25+ services**, designed to serve **164+ consulates worldwide**.
  - Develop **appointment-booking and reservation workflows**, collaborating with the mobile team to implement features and resolve usability and performance issues.
  - Investigated **production issues blocking app access** using Google Play, App Store, and Facebook feedback. Implemented a **shared response-handling layer** to distinguish Firebase App Check failures from backend failures and display appropriate verification or maintenance screens.
  - Review cross-functional sprint specifications with backend, DevOps, and team leads to identify missing requirements and clarify implementation details; conduct peer code reviews and prepare changes for testing.

Flutter Instructor @ ***Creativa Hub Alexandria*** (***Creativa Initiative*** by Egypt's Ministry of Communications and Information Technology - MCIT) - Alexandria, Egypt - On-site - Part-Time — June 2026 - Sep 2026

- Deliver hands-on, project-based Flutter training for the Beginner Flutter Diploma, helping students build real mobile applications through practical development.
- Teach Dart, Flutter, responsive UI, state management, REST APIs, local storage, Git, debugging, and software engineering best practices.
- Integrate AI-assisted development into the curriculum for learning, debugging, code reviews, and developer productivity.
- Mentor students in clean code, problem-solving, software architecture fundamentals, and collaborative development practices.

Flutter Developer @ ***SISMATIX Information Technology*** Kuwait, Remote Full-time — Aug 2025 - Jul 2026

- 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.
  - 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 **serving 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+)**
Ranked 2nd in the Information Systems Department

Languages

Arabic: Native
English: Professional Proficiency (B1)

Certificates

- **Mobile Application Development using Flutter (60 Hours)** - Information Technology Institute (ITI)
- **Software Engineering Level 1 Course (Grade 100%)** - Orange Digital Center
- **InnovEgypt Program Training Course** - ITIDA | TIEC
- **Introduction to Software Testing Concepts & Techniques** - Mahara-Tech (ITI)
- **Academic Excellence Award (2021/2022)** - New Nubaria City Development Authority
- **Head of Public Relations Committee** - HackerRank Campus Club, AUFS Season 6

View All Verified Certificates on Google Drive →