

Abdelrahman Hamdy Youssef

Senior Flutter Developer

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SUMMARY

Flutter developer with nearly four years of professional experience, all of it shipping production apps. I joined Roboost as a junior straight out of the ITI bootcamp, and six months later I was the company's only mobile developer. Since then I have owned its Flutter apps from code to store release: the rider app delivery fleets work from every day, the Sira 360 analytics app and the Dispatcher app. Most of my time goes into Riverpod and clean architecture, background location, payment integrations and release work. When Flutter can't do something, I write the Kotlin or Swift myself.

SKILLS

- **Languages:** Dart, Kotlin, Swift, TypeScript, JavaScript
- **Flutter:** Riverpod 3 (codegen), Freezed, go_router, Dio, Hive CE, flutter_secure_storage, slang i18n (Arabic/English, RTL)
- **Architecture:** Clean Architecture, MVVM, typed Result error handling, sealed state classes, module boundaries checked in CI
- **Platform:** foreground services, background location, FCM and local notifications, iOS notification service extensions, platform channels (Kotlin, Swift), home screen widgets (Android AppWidget, iOS WidgetKit/SwiftUI), biometrics, NFC, camera, TensorFlow Lite
- **Payments:** Nearpay SoftPOS (tap to pay), Paymob, Fawry, Flash
- **Testing and release:** unit, widget and integration tests (mocktail), GitHub Actions, Sentry, Firebase Crashlytics, Mixpanel, Shorebird code push, Play Store, App Store and Huawei AppGallery publishing
- **Backend (working knowledge):** Node.js, Fastify, MongoDB, Docker, Google Cloud Run; integrating with ASP.NET REST APIs

EXPERIENCE

Roboost, Cairo

Senior Flutter Developer

Dec 2022 – Present

Junior Flutter Developer

2024 – Present

2022 – 2024

Roboost sells delivery automation software to brands including McDonald's, Papa John's, Nespresso, Buffalo Burger, Kudu (Saudi Arabia) and El Ezaby Pharmacy. I started as one of two Flutter developers. Six months in, I was the only one, and I have carried the company's mobile apps on my own since, working on site with the backend, product and QA teams.

Rider app (Play Store, App Store, Huawei AppGallery)

- Built and maintain the app riders use through their whole shift: trip offers, pickup and delivery steps, QR code pickup, proof of delivery with photo and signature, odometer capture, custody, wallet, income and shift history.
- Cut daily Android crashes per installed device from a 6% peak (Feb 2023) to 0.02% (2026), measured from Google Play Console exports. Most of the gain came from fixing memory leaks and plugins that were set up or torn down incorrectly. Over the same period the install base grew from about 3,300 to more than 14,000 devices.
- Integrated four payment providers so riders can take payment at the customer's door: Flash, Paymob, Fawry and Nearpay tap to pay over NFC. The official Nearpay Flutter SDK no longer compiled on current Flutter, so I forked it, updated its dependencies and still maintain the fork.
- Wrote the live tracking service: an Android foreground service that keeps GPS running during a shift, sends the rider's position every 25 seconds and flags rooted or jailbroken devices with each update.
- Took the app from Flutter 2.10.5 to current releases while it stayed in production. In 2023 that meant the move to Dart 3 and from Provider to Riverpod. Since then I have upgraded through Flutter 3.16, 3.19, 3.24, 3.27 and 3.32, including the Android Gradle plugin migration.
- Restructured the codebase one feature at a time, from mixins that called the API directly to MVVM and then clean architecture with typed errors and value objects. Moved navigation to go_router. Releases kept shipping throughout.
- Added biometric login, image push notifications (iOS notification service extension), in-app update prompts and Shorebird code push for urgent fixes. Set up GitHub Actions to analyse and test every push and post the results to the team's Google Chat.

Sira 360 (AI customer experience platform for restaurants, Google Play and App Store)

- Only developer on the mobile app since the first commit in Feb 2026. It is now about 100,000 lines of Dart with more than 200 test files.
- Built the executive dashboards, AI review summaries and incident ticketing with SLA tracking, plus a customer messaging inbox with threads, cases, internal notes, attachments and voice notes.
- Designed message sending for poor connections. Messages show up immediately, voice notes queue and retry until the server accepts them, and polling reconciles the local list with the server.
- Wrote the CI checks the project depends on: analysis that fails on any warning, a Dart script that blocks imports between feature modules, and a minimum coverage threshold.
- Added Sentry for errors and Mixpanel for usage tracking, and wrote about 4,800 lines of feature documentation so someone else could take over the code.

Dispatcher app

- Built a mobile version of Roboost's web dispatch dashboard, starting in Apr 2024. Dispatchers can track orders on a live map, search tasks, add tasks to trips, see alternative riders and create quick tasks by picking a location on the map.
- Added Arabic and English, Firebase messaging, and integration tests for login and task creation.

OPUS HR, Remote

Nov 2025 – Jun 2026

Flutter Developer (part-time)

- Started the OPUS-365 HR app and wrote most of its first release, working directly with the backend and product teams.
- Onboarded the two developers who joined the app in Jun 2026.
- Built attendance: clock-in is checked against a geofence, and clock-ins made offline wait in a local queue and sync once the device reconnects. Shifts that require a photo can't be clocked into offline.
- Built guest registration and check-in, employee requests with an approval flow and history, and biometric login.

PROJECTS

Rattel, Islamic companion app (personal)

Mar 2025 – Present

Published on Google Play and the App Store.

- Quran reader and audio player with background playback, prayer times with azan alarms, Qibla compass, Hijri calendar, hadith, azkar, Quran radio, and a memorisation mode that records your recitation so you can compare it with the reciter's.
- Wrote the home screen widgets natively: 9 for Android in Kotlin and 12 for iOS in SwiftUI/WidgetKit, all showing data shared from the Flutter side.
- Built a browser that blurs inappropriate images on the device. Three TensorFlow Lite models (NSFW, face detection and gender classification) run in a background isolate so scrolling stays smooth.
- Wrote the backend for group Quran readings (khatmas) in TypeScript with Fastify and MongoDB. Two people can't claim the same part, khatmas expire after 7 days through a TTL index, and it has rate limiting, integration tests against an in-memory database and a Docker image for Cloud Run.

Gym Management System, ITI graduation project

Oct – Nov 2022

Team of six.

- Wrote the React Native (Expo) mobile app by myself: diet and workout plans, a shop with a cart, Redux state and PayPal subscriptions. Also built the PayPal checkout in the team's React web app.

EDUCATION

Cross-Platform Mobile & Front-End Development, Information Technology Institute (ITI),

Aswan

2022

B.Sc. Civil Engineering, Aswan University

2015 – 2020

CERTIFICATIONS

Udacity Professional Front-End Web Development (2022) · freeCodeCamp JavaScript Algorithms & Data Structures (2022)

LANGUAGES

Arabic (native) · English (professional working proficiency)