

KHALED HOSSAMELDIN

Senior Mobile Engineer

Flutter · Cross-Platform iOS & Android

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pub.dev/packages/telephony_sms

SUMMARY

Senior mobile engineer with 5+ years building and shipping cross-platform iOS and Android apps with Flutter from a single codebase — dropping to native Swift/Kotlin via platform channels when a feature demands it. Strong in Dart, Clean Architecture, and BLoC state management, REST API integration with async data handling, and multi-tenant / white-label build infrastructure. Experienced in automated testing (TDD), performance optimization, and CI/CD release pipelines (GitHub Actions, GitLab CI, Fastlane). Published pub.dev plugin author and team mentor.

CORE SKILLS

Languages & Frameworks: Dart, Flutter, Swift (iOS), Kotlin / Java (Android), JavaScript

Architecture & State: Clean Architecture, BLoC, dependency injection (get_it), native bridging via platform channels (MethodChannel), white-label / multi-tenant (flavor-based) builds, reusable component libraries

APIs & Backend: RESTful API integration, async data handling, data caching, deep linking, Firebase, basic Node.js

Quality & Delivery: Unit / widget / integration (end-to-end) testing, TDD, performance optimization, debugging & production issue resolution

DevOps & Tooling: CI/CD, GitHub Actions, GitLab CI, Fastlane, Flutter flavors, App Store & Google Play deployment, Git, Android Studio, VS Code

Process & Design: Agile / Scrum, code review, mentoring, Jira, Trello, Figma, Adobe XD

Spoken Languages: English (Fluent), German (B2), Arabic (Native)

PROFESSIONAL EXPERIENCE

Software Engineer — AbyDOS

Sohag, Egypt (Freelance) · Feb 2026 – Present

Concurrent freelance engagement; primarily on the mobile team.

- Building two production Flutter apps from the ground up for a real-estate developer: Sedra Life (unit & project purchasing) and Sedra Resident (post-purchase resident services).
- Reuse a proven Clean Architecture + BLoC foundation across both apps, adapting only the business-specific layers — faster delivery with a consistent, testable codebase.
- Validate releases across iOS and Android as part of QA.

Software Engineer — Core Systems Technology

Cairo, Egypt · Feb 2024 – Present

Joined as a contractor (Feb 2024 – Feb 2025), converted to full-time Feb 2025.

- Own end-to-end mobile delivery standards — Clean Architecture, BLoC, flavor-based configuration — and standardized the iOS/Android release flow with GitHub Actions and Fastlane.
- Mentor junior Flutter developers through structured code reviews and pair programming.
- Built multi-tenant Flutter build infrastructure with flavor-based configuration, enabling reliable per-client (white-label) builds.
- Implemented automated unit, widget, and integration testing with performance monitoring, reducing post-release defects and improving release reliability.

- Integrated dependency injection (BLoC + get_it) and deep linking to streamline delivery and deepen user engagement.

Freelance Flutter Developer (Contract)

Remote · Sep 2021 – Feb 2025

Concurrent freelance client engagements.

Wide Technology

Riyadh, Saudi Arabia · Nov 2021 – Feb 2025

- Shipped cross-platform Flutter apps to the App Store and Google Play, translating UI/UX designs into polished, responsive interfaces.
- Integrated REST APIs with async data handling and local caching, cutting screen load times by roughly 50%.
- Resolved 50+ production bugs through systematic debugging and root-cause analysis, reducing support load.

Projectech

New Cairo, Egypt · Sep 2021 – Aug 2022

- Delivered Flutter apps across e-commerce, social, and utility domains.
- Ran agile sprints with iterative releases and client-feedback loops.

Android Developer Intern — Projectech

New Cairo, Egypt · Aug 2020 – Nov 2020

- Reduced app crashes by adding test coverage and crash monitoring; contributed to data-driven UI improvements.

SELECTED PROJECTS & PUBLICATIONS

- **Personal Portfolio & Brand Site** — Statically-exported Next.js site on AWS (S3 + CloudFront) with full Terraform IaC and OIDC-based GitHub Actions CI/CD; Lighthouse 100 across all categories. khaledhossameldin.com
- **QMS** — Healthcare ecosystem for synchronized appointment booking and pharmacy fulfillment (Flutter Developer). Clean Architecture + BLoC; geofencing-based nearby-pharmacy recommendations.
- **Albruaz** — Video-driven competition platform (Lead Flutter Developer). Clean Architecture + TDD; custom video caching and client-side compression; handled 5,000+ video submissions in the first release cycle.
- **Royake** — Enterprise consulting application (Senior Flutter Developer). BLoC + strict TDD with 80%+ coverage; 40,000+ downloads; mentored the engineering team.
- **telephony_sms** — Open-source Flutter plugin (pub.dev) sending background SMS via Android platform channels.
- **Genetic Algorithm Golden-Ratio Design Model** — Peer-reviewed Springer book chapter (2022). doi.org/10.1007/978-3-031-07512-4_8
- **Production support & maintenance** — Ongoing Flutter maintenance, optimization, and release support across live apps: Pet Care, Orood, Al Frayan, and Sabq.

EDUCATION

B.Sc. Computer Science

2017 – 2021

MSA University (Egypt) in partnership with the University of Greenwich (UK).