

Mohamed Abdelhakim Hacine

Senior Mobile Engineer · Android & iOS ·

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SUMMARY

Senior Android engineer with 4 years building production apps used by millions, promoted twice at a Y Combinator super-app. Owns a cross-app real-time chat & calling SDK — led its XMPP-to-Phoenix-WebSocket re-architecture and offline-first sync design, and built a remote KYC identity-verification stack (NFC, MRZ, PKI, biometrics). Deep in Kotlin, Jetpack Compose, Clean Architecture, coroutines and real-time systems, with a strong testing and stability track record.

PROFESSIONAL EXPERIENCE

Software Engineer III (promoted twice from Software Engineer I)

Feb 2024 – Present

Yassir — Y Combinator (W20), MENA super-app

Algiers, Algeria

Real-Time Chat & Calling SDK (cross-app platform)

- Led the v3 re-architecture of Yassir’s Android chat SDK, migrating real-time transport from XMPP to Phoenix WebSocket Channels behind a runtime feature flag for progressive, flag-gated rollout across dev, staging and pre-prod, de-risking a transport swap on a system used by **4 production verticals**.
- Architected an offline-first, single-source-of-truth design on a 5-table Room database with a 3-mode incremental sync engine (none / full / incremental), replacing a legacy in-memory store and eliminating message loss on reconnect.
- Raised the quality bar by injecting dispatchers and clocks for deterministic tests, growing the suite to **800+ unit tests** across **57 classes**.
- Designed and shipped the SDK’s public API (ChatClient / ChatSDK), integrated by **4 Yassir verticals** over both Koin and Hilt with isolated internal DI and centralized token-refresh / 401 handling — collapsing per-app integration to a builder and a few line calls.
- Delivered LiveKit 1:1 voice/video calling and voice messaging end-to-end, audio routing, connection-quality indicators and Compose call UI, a real-time capability the SDK previously lacked. *LiveKit, Jetpack Compose*
- Implemented direct-to-GCS attachment uploads, removing the backend relay hop for media; migrated chat UI to Jetpack Compose on Yassir’s Sefar design system. *Google Cloud Storage, Jetpack Compose*

KYC & Remote Identity Verification

- Designed and shipped a fully-remote driver onboarding (KYC) system, reducing manual document-review time **by 50%** and eliminating fraudulent submissions through automated authenticity checks.
- Built passport/ID capture combining MRZ scanning with NFC chip reading to extract and validate document data, then verify authenticity directly against the embedded chip. *ML Kit, NFC, Kotlin*
- Implemented PKI-based document-integrity verification for compliance with Algeria’s national Public Key Infrastructure. *PKI*
- Partnered with the iOS team to deliver liveness detection and biometric face-matching for real-time identity verification across both platforms. *ML Kit, TensorFlow*

Android Developer

Oct 2022 – Feb 2024

ARBIN VTC

Algiers, Algeria

- Built and optimized the Rider (100K+ downloads) and Driver (50K+ downloads) ride-hailing apps in a modular architecture, improving UI responsiveness with Jetpack Compose and Coroutines.
- Cut memory consumption to deliver a **15% performance** improvement by resolving memory leaks and refactoring core flows.
- Designed a server-driven UI for the Driver app’s onboarding, enabling dynamic updates without Play Store releases — reducing deployment time by **50%** and unlocking faster A/B testing.
- Maintained a **99.68% crash-free rate** by proactively monitoring stability and resolving critical bugs with Firebase Crashlytics.

FREELANCE & CONTRACT

Native Mobile Developer — iOS & Android (Freelance)

Ze Barbershop

2024 · 3 months
Paris, France (Remote)

- Architected and shipped 4 native apps from scratch (Client & Manager, iOS & Android) serving 2,000+ users in Paris, replacing a legacy React Native codebase and improving UX, performance and visual design.
- Built a role-based Manager app (salon owners and employees, distinct permission levels) covering employee management, leave tracking, booking oversight, scheduling and business analytics.
- Delivered a Client app with booking, promo-code redemption, reviews, profile management and social auth (Sign in with Apple / Google).
- Applied Clean Architecture with MVVM across both platforms; published all apps to the App Store and Play Store. *Swift, SwiftUI, Kotlin, Jetpack Compose, Retrofit, Dagger Hilt, Coil, Kingfisher, Firebase*

TECHNICAL SKILLS

Languages: Kotlin, Swift, Java

Mobile UI: Jetpack Compose, SwiftUI, Android Jetpack (Navigation, WorkManager, ViewModel, Paging), Combine

Identity / Security: MRZ scanning (ML Kit), NFC chip reading, PKI document verification, liveness detection, biometric face-matching (TensorFlow)

Architecture: Clean Architecture, MVVM, modularization, server-driven UI

Concurrency & Real-Time: Kotlin Coroutines, Flow, structured concurrency, WebSockets (Phoenix Channels), LiveKit

Data & Backend: Room, DataStore, Realm, SQLite, Retrofit, REST

Testing: JUnit, Mockito, Espresso, UI testing, TDD, dispatcher/clock injection

DevOps & Tooling: Git, GitHub Actions, Gradle, CI/CD for Android

Firebase & DI: Crashlytics, Cloud Messaging (FCM), App Distribution, Auth; Dagger Hilt, Koin

EDUCATION

M.S., Industrial Engineering — IMSI, Oran University 2020 – 2022

B.S., Industrial Maintenance — IMSI, Oran University 2016 – 2020

LANGUAGES & CERTIFICATIONS

Languages: English (C1) · French (B2) · Arabic (Native)

Certifications: Google Africa Developer Training (2020) · Udacity Android (2018) · Udemy Java (2017)