

Mohamed Abdelhakim Hacine

Software Engineer · iOS · Android

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[LinkedIn](#) | [GitHub](#)

SUMMARY

Results-driven Software Engineer with 4 years of experience building and optimizing high-impact applications across iOS, Android,. Proven ability to independently deliver complete cross-platform solutions, from MVP development to production-scale apps serving millions of users. Expertise in native development (Swift, Kotlin), modern UI frameworks (SwiftUI, Jetpack Compose), secure identity verification, and AI integration. Demonstrated success in performance optimization, clean architecture implementation, and rapid product delivery.

PROFESSIONAL EXPERIENCE

Android Engineer

Yassir (Y Combinator — W20) | Algiers, Algeria *February 2024 – Present*

KYC & Identity Verification

- Designed and implemented a fully remote driver onboarding (KYC) system, enhancing security and reducing fraud risk.
- Extracted and validated Passport/ID data using MRZ scanning (ML Kit), followed by NFC-based chip reading to securely authenticate document authenticity — cutting manual processing time by 50% and eliminating fraudulent submissions.
- Implemented PKI-based authentication to ensure Passport/ID integrity and compliance with Algeria's Public Key Infrastructure (PKI).
- Collaborated with the iOS team to integrate Liveness Detection (ML Kit, Swift) and Biometric Face Matching (TensorFlow), enhancing real-time identity verification.

Real-Time Chat System

- Architected and implemented a real-time chat module using Phoenix Elixir WebSocket client and Kotlin Coroutines, collaborating with the iOS team to ensure a consistent cross-platform communication experience.
- Built a robust offline-first architecture with message queuing using Room and DataStore, ensuring reliable message delivery and synchronization with Flows and LiveData for reactive UI updates.

Android Developer

ARBIN VTC (Ex Harbin EI Djazair) | Algiers, Algeria *October 2022 – February 2024*

- Developed and optimized the Rider (100K+ downloads) and Driver (50K+ downloads) apps in modular architecture , improving UI responsiveness and performance with Jetpack Compose & Coroutines.
- Implemented new features while refining existing functionalities and resolving memory leaks, leading to a 15% performance optimization by reducing memory consumption.
- Designed and implemented a server-driven UI for the Driver app's onboarding feature, enabling dynamic UI updates without requiring Play Store releases , reducing deployment time by 50% and allowing for faster A/B testing.
- Maintained a 99.68% crash-free rate by proactively monitoring application stability using Firebase Crashlytics, identifying and resolving critical bugs.

FREELANCE & CONTRACT PROJECTS

Native Mobile Developer — iOS & Android (Freelance)

Ze Barbershop | Paris, France (Remote) | 3 Months

- Architected and developed 4 native mobile applications from scratch (Client & Manager apps for iOS and Android), serving 2,000+ users across Paris — replacing a legacy React Native codebase.
- Built a role-based Manager app supporting salon owners and employees with distinct permission levels, featuring employee management, leave tracking, booking oversight, scheduling, and business analytics.
- Implemented a comprehensive Client app with booking system, promo code redemption, reviews, profile management, and social authentication (Sign in with Apple/Google).
- Designed and implemented Clean Architecture with MVVM pattern across both platforms, utilizing Jetpack Compose (Android) and SwiftUI (iOS) for modern, responsive UIs.
- Integrated push notifications, image caching (Coil/Kingfisher), dependency injection (Dagger Hilt), and local storage to ensure optimal performance.
- Successfully published all apps to the App Store and Play Store, significantly improving UX, performance, and visual design over the previous React Native implementation.

Tech Stack: *Swift, SwiftUI, Kotlin, Jetpack Compose, Clean Architecture, MVVM, Retrofit, Dagger Hilt, Firebase, Coil, Kingfisher*

TECHNICAL SKILLS

Mobile & Desktop: Kotlin, Swift, Java, Jetpack Compose, SwiftUI, XML

iOS : Combine, UserDefaults, Kingfisher, URLSession, Push Notifications, Accessibility API, Screen Capture API

Android: Jetpack (Navigation, WorkManager, Paging, ViewModel), Android Lifecycle, ViewBinding, Coil, DataStore, SharedPreferences

Architecture: Clean Architecture · MVVM, MVC, MVP

Concurrency & Reactive: Kotlin Coroutines, Flows, LiveData, Structured Concurrency, Data Binding, WebSockets (Phoenix Elixir)

Backend Integration: REST, WebSockets, Retrofit

Databases: Realm, Room, SQLite

Testing: Unit Testing, TDD, Automated Testing (Espresso, UI Testing, Mockito, JUnit)

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

Firebase: App Distribution, Authentication, Cloud Messaging (FCM), Crashlytics

Dependency Injection: Dagger Hilt, Koin

AI / ML: ML Kit, TensorFlow, LangChain integration

LANGUAGES

English: (C1) | **French:** (C1) | **Arabic:** (Native)

EDUCATION

Master of Industrial Engineering

Institute of Maintenance and Industrial Safety (IMSI) — Oran University | 2020 – 2022

Bachelor of Industrial Maintenance

Institute of Maintenance and Industrial Safety (IMSI) — Oran University | 2016 – 2020

CERTIFICATIONS

- Google Africa Developer Training Program — 2020 | 6 months of intermediate training in Android Development
- Udacity Certificate of Completion — 2018 | 4 months of intermediate training in Android Development
- Udemy Certificate of Completion — 2017 | 4 months of intermediate training in Java Development