

Mohamed Abdelhakim Hacine

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Algiers , Algeria (**Open to Relocation**)

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Professional Experience

Android Engineer

February 2024 -

Present

Yassir (Y Combinator - W20), **Algiers, Algeria**

Led the design and implementation of 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 and confirm 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.
- Optimized performance and UI of the Android Driver App (1M+ downloads) with Jetpack Compose and Kotlin, boosting user experience and app efficiency.
- Currently contributing to the development of a scalable real-time in-app chat module using WebSockets and NATS JetStream, offline message queuing, and planned end-to-end encryption.
- Created a Proof of Concept (PoC) using MongoDB Atlas Device Sync, improving real-time event handling and data synchronization.

Android Engineer
2024

October 2022 - February

ARBIN VTC (Ex Harbin EL DJAZAIR), **Algiers, Algeria**

Developed and optimized the Rider (100K+ downloads) and Driver (50K+ downloads) apps, improving UI responsiveness and performance with Jetpack Compose & Coroutines

- Implemented new features, while simultaneously refining existing functionalities and resolving memory leaks, leading to a 15% reduction in 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 and errors.

Skill Highlights

Core Languages & Frameworks:

- **Mobile:** Kotlin, Java, Swift, Jetpack Compose, SwiftUI , XML. Jetpack (Navigation, WorkManager, Paging, ViewModel), Android Lifecycle, ViewBinding, Compose UI optimization
- **Architectures:** Clean Architecture,
- **Presentation patterns :** MVVM, MVC, MVP.
- **Concurrency:** Kotlin Coroutines, Flows , Live Data , Structured-Concurrency, Data Binding
- **Backend:** REST, WebSockets, Retrofit.

Tools & Libraries:

- **Databases:** Realm, Room (offline storage) , SQLITE.
- **Testing:** Unit Testing, TDD, Automated Testing (Espresso, UI Testing, Mockito, JUnit)
- **Others:** Firebase, ML Kit, Tensor Flow, Git, GitHub , Github Actions , Gradle , JIRA, CI/CD , for Android , Firebase App Distribution, Firebase Authentication, Firebase Cloud Messaging (FCM), Dagger hilt , Koin .

Communication

- English: C1.
- French: C1.
- Arabic: C2 (Native).

Education

Bachelor of Industrial Maintenance - Institute of Maintenance and Industrial Safety - (IMSI)

Oran University 2 - 2020-2022.

Masters of Industrial Engineering - Institute of Maintenance and Industrial Safety - (IMSI)

Oran University 2 - 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.

Summary

Results-driven Android Engineer with 3 years of experience building and optimizing high-impact mobile applications. Proven ability to lead development efforts, deliver robust solutions, and enhance user experience using Kotlin, Jetpack Compose, and modern Android development practices. Expertise in secure identity verification, mobile payment integration, and performance optimization, seeking a challenging role to contribute to innovative mobile projects.