

Massinissa Mouhoub

Mobile Engineer | Flutter, Kotlin & Swift

 Massinissa-Mouhoub |  Massinissa Mouhoub |  massinissa.mouhoub3@gmail.com |  +213 540 050 996 |  massinissamouhoub.com |  Algiers, Algeria

SUMMARY

Mobile Engineer with 3+ years shipping cross-platform Flutter and Dart applications extended with native Kotlin and Swift modules. Strong in Clean Architecture, state management, and reusable component systems, with production results in crash-rate reduction, REST API integration, and performance optimization. Comfortable owning delivery end to end: CI/CD, Docker, and the Linux host it runs on.

SKILLS & LANGUAGES

Mobile	Flutter, Dart, Kotlin, Java, Swift, Clean Architecture, SOLID, BLoC/Cubit, Riverpod, Provider, GetX, GoRouter, Auto Route, Platform Channels / Native Modules, EventChannel, ActivityKit (Live Activities), Flutter DevTools, Mocktail.
Backend & Integration	REST APIs, GraphQL, WebSockets, Firebase (Firestore, FCM), Push Notifications (FCM/APNs), Deep Linking, Node.js/TypeScript, Go (net/http, chi).
Tooling & Delivery	Git/GitHub, CI/CD (GitHub Actions), Fastlane, Shorebird, Docker & Docker Compose, Linux (Ubuntu VPS, Caddy, ufw, fail2ban), Unit/Widget/Integration Testing, TDD, Agile/Scrum, Google Play Console, App Store Connect.
Languages	Arabic & Kabyle (Native), French (C2 – TCF), English (C2), German (A1).

WORK EXPERIENCE

Mobile Engineer – YAY Global

July 2025 - Present

- Industrialized the production Flutter codebase behind YAY Portal (60k+ downloads) and YAY Captain (10k+) by architecting a reusable component library on BLoC, Riverpod and get_it for DI, reducing feature delivery time and enforcing design-to-code consistency.
- Reduced app crash rate by 95% (from 19.8% to 1.05%) by refactoring the native Java integration of the flutter_overlay_window plugin to resolve Android overlay lifecycle issues causing the failures.
- Integrated iOS Dynamic Island via native Swift (ActivityKit Live Activities) to track a ride in real time from start to finish, displaying live status and ETA by bridging state updates from Flutter to the native layer.

Mobile Developer – SlickPay (Contract)

April 2025 - May 2025

- Delivered secure, real-time video features (Agora SDK) for a fintech app across iOS and Android, implementing platform-specific permission and encryption handling to meet financial compliance requirements.

Full Stack Mobile Engineer – Yarbit (Contract)

July 2024 - Sept 2024

- Authored a 30-page Technical & Component Guide documenting system architecture, state management, reusable UI patterns, and coding conventions, cutting onboarding time for new developers by 50%.
- Developed comprehensive Unit and Widget testing suites covering core UI components and critical business logic, validating expected behavior and ensuring stability before production deployment.

Full Stack Mobile Engineer – MIXIN

March 2023 – Sept 2024

- Delivered pixel-perfect Flutter screens from Figma designs, optimizing rendering and animations to hold a consistent 60fps under complex scrolling and transitions.
- Built a shared design system (colors, typography, spacing) consumed across iOS, Android, and Web, enforcing visual consistency on every platform target.

PROJECTS

Disease-Risk Zone Mapping Application

Cross-platform Flutter app mapping disease-spread risk zones from geospatial data, alerting users in real time and rendering clustered interactive maps over large datasets. Methodology published at an [IEEE](#) conference in Paris.

internet_checker_native – Flutter Plugin

Built a native Flutter plugin wrapping Android's ConnectivityManager and NetworkCallback in Kotlin, streaming real-time connectivity state to Flutter over an EventChannel to detect and report connection changes reactively.

Self-Hosted Portfolio Infrastructure

Multi-stage Docker build served behind Caddy with TLS on a hardened Ubuntu VPS (ufw, SSH hardening, fail2ban), with healthchecks on a private container network; a GitHub Actions pipeline redeploys over SSH on every push in about two minutes.

EDUCATION

M.Sc. Bioinformatics at **USTHB**, Algiers

(14.87/20 – 2nd of 50)

B.Sc. Computer Networking & Telecommunication Eng. at **USTHB**, Algiers

(14.03/20 – top 5 of 51)