MOHAMED MEWAFY

SENIOR FLUTTER & MOBILE APPLICATIONS ENGINEER

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EXECUTIVE SUMMARY

Accomplished Senior Mobile Engineer with 4+ years of specialized expertise in Flutter & Dart cross-platform architecture. Proven track record of engineering, deploying, and maintaining high-performance production applications for iOS & Android, consistently delivering 60fps fluidity, 99.98% crash-free stability, and offline-first data resilience (SQLite / Drift). Expertise in Clean Architecture, reactive state management (BLoC & Riverpod), native FFI integrations, payment gateways (Apple Pay, Google Pay, Stripe), and end-to-end publishing pipelines for Apple App Store and Google Play Console.

CORE TECHNICAL SKILLS & STACK

- **Mobile Technologies:** Flutter, Dart, iOS Native (Swift/Obj-C bridges), Android Native (Kotlin), Rust FFI
- **Architecture & Patterns:** Clean Architecture, BLoC Pattern, Riverpod, Repository Pattern, SOLID, Dependency Injection
- **Databases & Local Storage:** SQLite, Drift, Hive, Secure Storage, Shared Preferences, Offline-First Sync
- **Cloud, APIs & Backend:** RESTful APIs, WebSockets, Firebase (FCM, Auth, Analytics, Crashlytics), Supabase, Node.js
- **E-Commerce & Payments:** Apple Pay, Google Pay, Stripe SDK, In-App Purchases, Subscription Management
- **DevOps & Tooling:** Git & GitHub, Fastlane CI/CD, App Store Connect, Google Play Console, Postman, Figma

SELECTED PROJECTS & ENGINEERING EXPERIENCE

Maqam App (Islamic Utility Platform)

2024 - 2025

Lead Mobile Architect & Developer — 150,000+ Active Users | 99.98% Crash-Free | < 42ms Audio Playback

- Architected complete Flutter application for iOS & Android utilizing BLoC Pattern and Clean Architecture separation.
- Integrated high-precision astronomical prayer calculation algorithms natively compiled in Rust via FFI for 0-battery drain.
- Engineered offline-first local SQLite caching system enabling 100% full application functionality without internet connection.
- Integrated background audio playback services, reactive Qibla compass sensors, and targeted push notification scheduling.

QuickShop Pay (Next-Gen E-Commerce Mobile App)

2024 - 2025

Senior Flutter Engineer — 94.2% Checkout Completion Rate | < 1.2s Instant Payment | Apple Pay & Stripe

- Engineered smooth, responsive shopping experience using Riverpod for instant cart recalculations and dynamic filters.
- Implemented seamless 1-tap checkout supporting native Apple Pay, Google Pay, and Stripe SDK with 3D Secure verification.
- Built resilient background synchronization layer keeping user baskets, discounts, and order histories cached locally.

CimaSpace Mobile (4K Video & Live Streaming App)

2023 - 2024

Mobile Systems Engineer — 32,000+ Concurrent Streams | 4K HDR 60fps | Sub-210ms Startup Time

- Constructed adaptive HLS video player engine with hardware acceleration, achieving 60fps frame rates across low-end and flagship devices.
- Implemented real-time synchronized group watching and live reactions chat via bi-directional WebSockets protocol.
- Managed complete store distribution life-cycle, privacy policy compliance, and automated TestFlight / Internal Testing builds.

madx Engineering Studio

2022 - Present

Independent Senior Flutter Consultant — 18+ Delivered Client Projects | 100% On-Time Delivery Guarantee

- Conduct comprehensive codebase audits, identifying memory leaks, jank frames, and deprecated dependencies.
- Upgrade legacy mobile applications to modern Flutter SDKs, improving frame render times from 42fps to rock-solid 60fps.
- Provide direct technical mentorship, client tracking portals, and post-launch maintenance SLA guarantees.

EDUCATION & LANGUAGES

Bachelor's Degree in Computer Science / Software Engineering — Graduated with Distinction

Languages: Arabic (Native), English (Professional Full Working Proficiency)