

Osborn Maja Mangaro

Title: Mobile Engineer

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Designs: <https://dribbble.com/osbornmaja>

SUMMARY

Mobile Engineer with 1.5+ years of production experience building Flutter applications for fintech and cross-border payments. Experienced in Flutter, Kotlin, REST APIs, WebSockets, BLoC, Clean Architecture, automated testing and CI/CD. Contributed to migrating production Android applications from Kotlin/Java to Flutter and delivering Android/iOS releases, payment integrations and KYC workflows.

TECHNICAL SKILLS

Mobile: Flutter, Dart, Android, Kotlin, Jetpack Compose, React Native

Architecture: Clean Architecture, MVVM, Feature-based Architecture, Repository Pattern

State Management: BLoC , Riverpod , Zustand

APIs & Backend integration : REST APIs, WebSockets, Firebase

DevOps: GitHub Actions, Fastlane, Xcode Cloud, Git

Tools: Android Studio, Xcode, Figma, Postman, Jira

EXPERIENCE

1. Roamtech Solution March 2025 - present

Location - Nairobi (Hybrid)

Mobile Engineer (Sep 2025 - Present)

- **Architecture & Migration:** Contributed to the migration of the flagship international money transfer (IMT) app Afrisend [[App](#)] from legacy Kotlin/Java to a modular Flutter architecture, supporting a platform that processes over 2,000+ monthly global remittance transactions.
- **App Engineering & Concurrency:** Built core features for the UK-focused Tumatuma remittance app [[App Store](#) | [Play Store](#)] using Flutter and BloC implementing concurrency controls to prevent duplicate transaction events during payout processing.
- **Integrations & Real-Time Monitoring:** Integrated Veriff KYC, M-Pesa and international bank payout APIs, and WebSockets to support identity verification, transaction processing and real-time status updates; implemented Firebase Crashlytics and Analytics for production monitoring, crash diagnostics, and application health tracking
- **UI/UX & Platform Adaptability:** Translated Figma wireframes into reusable Flutter components, resolving cross-device tablet/foldable rendering issues and building client-side validation logic.
- **Release Engineering & DevOps:** Automated multi-environment pipelines (dev, staging, prod) using Fastlane, GitHub Actions, and Xcode Cloud; managed iOS provisioning profiles, signing certificates, TestFlight beta distribution, and App Store Connect releases.
- **Code Quality & Technical Standards:** Participated in peer code reviews using GitHub Copilot, integrated SonarQube static analysis for security scanning, and authored technical architecture guides (docs/architecture.md, docs/deployment.md) to streamline onboarding.

Mobile Engineer Intern (March 2025 - Aug 2025)

- **MVP Engineering:** Built and launched the initial cross-platform MVP (Tumatuma version 1) using React Native under strict bandwidth constraints.
- **Design Systems:** Translated legacy Adobe XD wireframes into reusable Figma component systems to streamline mobile UI development.

- **Web Landing Pages:** Developed and deployed responsive web landing pages using React—including the high-traffic Skiza landing page—to accelerate user acquisition

PROJECTS

1. Nafusite Mobile App (Android)

GitHub - <https://github.com/Bornmajor/NafusiteMobileApp>

Main Goal: Designed and developed a native Android application to demonstrate modern Android development practices.

- Built using Kotlin and Jetpack Compose following Clean Architecture principles.
- Implemented MVVM architecture with StateFlow for reactive state management.
- Designed reusable Compose UI components using Material 3.
- Integrated Firebase Realtime Database for product management.
- Implemented Cloudinary image hosting
- Added Media3 ExoPlayer support for product previews.
- Testing & Quality: Wrote reactive unit test suites targeting viewmodels and repositories using MockK and Turbine
- Managed navigation using Navigation Compose

Tech Stack: Kotlin, Jetpack Compose, Clean Architecture, MVVM, UDF, Firebase, Media3 ExoPlayer, Cloudinary, MockK, Turbine

2. Offline -First Data Synchronization App

GitHub - <https://github.com/Bornmajor/offline-data-sync-app>

Main Goal: Cross-platform React Native mobile application built to demonstrate offline-first data persistence, real-time cloud synchronization, and local token storage using Firebase Realtime Database and React Native Async Storage

- **Core Focus & Architecture:** Built an offline-first reference implementation demonstrating seamless local data persistence, real-time NoSQL database integration, and reactive state synchronization across offline and online device

states.

- **Real-Time Database & Auto Sync:** Integrated Firebase Realtime Database and React Native Firebase SDK to enable bidirectional cloud synchronization, automatically pushing local offline CRUD changes to the cloud upon network restoration.
- **Local Storage & Security:** Utilized React Native Async Storage for client-side authentication token persistence and local state caching during zero-network conditions.
- **UI/UX & Component Design:** Designed and implemented responsive Material Design UI components using React Native Paper based on Figma UI/UX prototypes.

Tech Stack: React Native, Firebase Realtime Database, React Native Firebase SDK, Async Storage, React Native Paper, Figma, NoSQL

EDUCATION

Bachelor of Science (B.S.C) - Software Engineering Sep 2020 - Aug 2024

Murang'a University of Technology, Murang'a County

Honors: *Second class (upper division)*

Certificate link:

<https://drive.google.com/file/d/1-jf2zTc5Tl9utqf0gutpOAOBbfw-M5A1/view?usp=sharing>

LICENSES & CERTIFICATIONS

Flutter & Dart Mobile Development – Udemy (2025) -

<https://www.udemy.com/certificate/UC-2c85c805-01ac-4912-9b7b-0b514b5473db/>

Complete React Native Course – Udemy (2023) -

<https://www.udemy.com/certificate/UC-cb68cb16-e540-4dd2-90e1-b60239ffe45c/>

PHP Backend Development – Udemy (2023) -

<https://www.udemy.com/certificate/UC-45686e56-ee53-459d-a6f6-4ce5978507fa/>