

Shekh Ehsanur Rahman

Senior Mobile Engineer — Flutter & React Native | Offline-First & Data-Sync Architecture

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[App Store](#) | [Google Play](#) | [pub.dev packages](https://pub.dev/packages)

Rajshahi, Bangladesh (UTC+6) | Remote | Currently works shifted hours for a Brazil-based team; available for US/UK overlap | Available as an independent contractor

SUMMARY

Senior mobile engineer with 11 years shipping cross-platform applications in Flutter and React Native, specialising in offline-first architecture and conflict-free data synchronisation — the problem that breaks most mobile apps in the field. Built and published a CRDT-based sync library, and shipped production apps that stay fully usable through network loss at 100,000+ daily active users. Comfortable across both cross-platform ecosystems and native Android and iOS, and experienced leading small distributed teams across time zones — owning features end to end from architecture through CI/CD and store release.

CORE TECHNICAL FOCUS

Cross-Platform: Flutter / Dart (7 yrs) — offline-first architecture, CRDT & conflict resolution, local-first data layers, state management (Bloc, Riverpod). React Native / TypeScript (3+ yrs) — component architecture, Redux & Context, native module bridging, Expo and bare workflows

Native: Android (Kotlin, Java, Jetpack Compose), iOS (Swift, SwiftUI) — platform channels, native modules, StoreKit 2, deep native integration

Data & Backend: Firebase (Firestore, Auth, Functions, Crashlytics), SQLite/Drift, REST APIs, Supabase, PostgreSQL

Quality & Delivery: Unit / widget / integration testing, CI/CD pipelines, Fastlane, Git-based review workflows, App Store & Play release management

EXPERIENCE

Senior Mobile Developer (Level III) — Developer eXperience Hub (Devxhub)

09/2023 – Present | Remote — Rajshahi, Bangladesh

- Architected the mobile application layer in Flutter and React Native for enterprise FinTech and expense-management products serving 50K+ users, owning data flow, state management and release process end to end.
- Built an offline-first local/Firebase sync architecture that keeps core app functionality fully available through network interruptions, with deterministic conflict resolution on reconnect.
- Designed and implemented the team CI/CD pipeline, substantially shortening release turnaround for a 4-developer team working across multiple time zones.
- Reduced crash rates by introducing structured state management — Bloc and Riverpod in Flutter, Redux and Context in React Native — with Firebase Crashlytics monitoring and regression tracking.
- Published 9 reusable open-source packages covering accessibility auditing, CRDT sync, UI and utility tooling — reducing repeated implementation work across client projects.
- Team lead and sole developer on multiple client and in-house products — owning architecture, implementation, CI/CD, App Store and Play release, and post-launch maintenance end to end. Delivered Tanto, a Brazilian corporate reimbursement platform integrating with state tax agencies (SEFAZ) for AI-based invoice token capture, policy validation and instant Pix payout; and Farenow, a multi-service super app for a US-based client (Houston, TX).
- Delivered client applications in React Native alongside Flutter — component architecture, Redux and Context state management, native module bridging to Kotlin and Swift, and store release on both platforms.
- Integrated AI-assisted development workflows (Claude Code) into the team process while maintaining code review and test discipline on all merged work.

Senior Mobile Application Developer — Prabartan Information Technology

06/2019 – 08/2023 | Remote — Rajshahi, Bangladesh

- Led development of an offline-first, multi-language EdTech platform reaching 100,000+ students across 5 countries, engineered so lessons and progress remain available without connectivity.
- Sustained a 4.7-star store rating at 100,000+ daily active users by building the Firebase/SQLite synchronisation layer and resolving sync-conflict edge cases at scale.
- Managed a 6-developer team and modernised the cross-platform stack, introducing Flutter 3.0, Jetpack Compose and SwiftUI alongside code review standards.

Android Application Developer — Blue Hills Information Technology

07/2015 – 05/2019 | On-site — Rajshahi, Bangladesh | Part-time alongside university through 04/2017, full-time thereafter

- Co-developed consumer Android applications reaching 500,000+ downloads and a top-10 Education category ranking on Google Play.

- Improved app launch performance and reduced production defects through systematic profiling and the introduction of code review practices.

Guest Trainer, Mobile App Development (Contract) — NACTAR

2016 – 2024 | 2–3 sessions per year | Bogura, Bangladesh

- Designed and delivered mobile development curriculum to 200+ developers, with hands-on project mentorship aligned to Android and cross-platform certification standards.

OPEN SOURCE — PUBLISHED PACKAGES

[flutter_crdt_sync_kit](#) — Offline-first, CRDT-based local data layer for Flutter with automatic conflict-free merge and pluggable Supabase/REST backend adapters.

[flutter_a11y_lens](#) — Live accessibility auditor that inspects the running widget tree and flags WCAG violations in real time via an on-screen debug overlay.

[flutter_liquid_glass_widgets](#) — Flutter UI kit implementing Apple's Liquid Glass design language, with shader-powered blur, physics-based animation and dynamic lighting.

[local_voice](#) — Privacy-first, fully on-device voice command recognition for Flutter — no cloud, no API keys, works in airplane mode.

[flutter_fabric](#) — Canvas library porting Fabric.js's interaction model to Flutter: selectable, draggable and rotatable objects, free drawing, JSON and SVG path support.

Also published: [flutter_scanner_devxhub](#), [flutter_prayer_time_calculator](#), [flutter_zoom_image](#), [flutter_scroll_date_picker](#) · Full list: pub.dev/publishers/ehsanur.com

SELECTED PRODUCTION WORK

Tanto — Enterprise Reimbursement Platform (Brazil) — AI invoice-token capture validated against SEFAZ state tax agencies, policy checks and instant Pix reimbursement. Company closed Sept 2025; listings removed.

Farenow — Multi-Service Super App (US client, Houston TX) [iOS](#) · [Android](#) — Ride-hailing, on-demand services, food and grocery delivery, virtual consultations and marketplace listings in a single cross-platform app. Team lead and sole developer — architecture through store release.

Peace of Mind (POM) — Estate Planning App [iOS](#) · [Android](#) — Cross-platform app with a solo-built native iOS layer: digital will management, biometric-locked vault, life timeline and StoreKit 2 subscriptions. Resolved subscription race conditions and led App Store submission and compliance.

Prabartan Educational Platform — Suite of offline-capable learning apps including Learn Python (165+ tutorials, 100K+ installs) with structured lessons and progress sync.

Forward SMS — SMS Forwarder — Forwards incoming SMS to email, Slack, Telegram and Discord in real time, with offline queuing and custom filter rules.

Also led and built solo, architecture through store release: Muslim Times Pro [iOS](#)·[Android](#) | Notivio [iOS](#)·[Android](#) | ProofSell [iOS](#)·[Android](#) | SK Mobile School [iOS](#)·[Android](#) | [eSIM247](#)

CURRENT BUILDS (GITHUB)

OMR Scanner — Fully offline exam answer-sheet scanner: registration-mark alignment and homography instead of OCR, with grid calibration, live camera guide, auto-capture and instant per-roll scoring.

Jatri — Bangladesh Transit App — Journey planner and ticketing app built on real MRT Line 6 and BRTA route data — search, route results, itinerary detail and ticket purchase flow.

ar_measure — Cross-platform AR measurement plugin wrapping ARKit and ARCore — place anchors, read live real-world distances and areas.

EDUCATION

B.Sc. in Computer Science & Engineering — Varendra University, Rajshahi, Bangladesh | 2013 – 2017

LANGUAGES

Bangla — Native | English — Professional working proficiency