

Suraj Bhavsar

Bangalore, Karnataka | +91 9265015996
surajbhavsar90@gmail.com

Summary

Senior Mobile Engineer with 4+ years of experience building scalable applications across Flutter and Native Android (Jetpack Compose) in fintech, ed-tech, and consumer domains. Strong expertise in Clean Architecture, MVVM, BLoC, and integrating native Android capabilities into Flutter apps using Platform Channels and Pigeon. Experienced in delivering business-critical features such as payments, onboarding, and engagement systems with measurable improvements in conversion, retention, and system reliability. Advocate of Test-Driven Development (TDD) with hands-on experience in unit, UI, and integration testing, along with CI/CD automation using GitHub Actions and Fastlane.

Links

[LinkedIn](#) [Github](#) [Leetcode](#)

Experience

Elsa Speak | Remote

Freelance Flutter Consultant | 01/2026 - Present

- Led end-to-end development of Paywall V2, redesigning architecture using BLoC and modular layers, resulting in a **12%** increase in purchases
- Developed the Gift Paywall as an exit-intent acquisition channel with limited-time offers, achieving a **7%** conversion rate
- Implemented **RTL** language support for Arabic and Hebrew by developing and updating multiple reusable widgets to support **Directionality** and locale-aware properties, including bidirectional text alignment, punctuation, and mirrored assets, expanding reach into Middle East markets.
- Strengthened release quality by adding widget and BLoC tests alongside feature development, contributing to the team's **Test-Driven Development (TDD)** practices on a large scale.

Refyne India | Bangalore

Software Development Engineer 2 | 09/2024 - 12/2025

- **UPI TPAP — Native Android + Pigeon bridge:** Owned UPI TPAP integration end-to-end. Since the NPCI-certified SDK was unavailable in Flutter, implemented the complete UPI flow in Native Android (Kotlin) — covering device linking, UPI PIN setup, UPI ID assignment, and blocked address handling aligned with **NPCI guidelines**. Exposed these capabilities to Flutter using Platform Channels (Pigeon) for type-safe, bi-directional communication.
- Redesigned the end-to-end **Lending Journey**, enhancing performance, API efficiency, and UX consistency.
- Integrated third-party **KYC SDK**, improving onboarding completion rates by **17%**.
- Architected and built an in-app **Survey & NPS** system in Flutter, eliminating third-party SDKs, reducing application size, and improving analytics control and performance.
- Spearheaded the **Design System** migration by developing reusable and scalable UI components and enforcing consistent design standards across teams; introduced the **Compound Components** pattern to improve UI reusability and reduce duplication.
- Drove modularization of the codebase using **Clean Architecture and Domain-Driven Design (DDD)**, and increased automated test coverage by **23%** by applying TDD across unit, widget, BLoC, and integration tests, significantly improving release stability.
- Mentored junior Flutter developers through PR reviews, architectural discussions, and pair programming, strengthening code quality and team productivity.

Questt | Bangalore

Software Development Engineer - II | 01/2022 - 09/2024

- Contributed to core feature development of Questt's AI-powered Flutter learning platform, helping it achieve **Best App of 2022 – Google Play Store**
- Designed and shipped the **Study Plan** module — dashboards, reminders, streaks, and interactive task flows — driving measurable improvements in user engagement and retention.

- Bridged Flutter with Native Android using Platform Channels (MethodChannel/EventChannel), enabling real-time in-app chat with native performance
- Built **Native Android flash games** (Tic Tac Toe and Memory Match) in **Kotlin** and embedded them inside the Flutter app using **Platform Views (AndroidView)**, providing short native gameplay breaks during long study sessions and improving in-module student engagement by **7%**.
- Integrated **MoEngage** for analytics, push notifications, and A/B experimentation, and **Firebase** (Auth, Crashlytics, Remote Config, Analytics) for crash monitoring and feature gating across the Flutter and Native Android layers.

Tellephant | Remote

Software Development Engineer Intern | 09/2021 - 11/2021

- Built end-to-end subscription management flows and reusable UI modules for inventory and catalog in the Flutter app, applying **MVVM with Stacked Services** for modular, testable components.
- Refactored data repositories and shared widgets to improve code structure, reusability, and long-term maintainability.

Personal Projects

FinTracker — Personal Finance & Expense Tracker (Native Android, Jetpack Compose) | 2025

- **Overview:** An offline-first personal finance app for tracking expenses, budgets, and monthly insights, built to demonstrate modern Android architecture using Jetpack Compose.
- Architected the app using **Clean Architecture + MVVM** with strict separation between data, domain, and presentation layers, and unidirectional state flow via **StateFlow** and **UiState** for predictable, testable UI.
- Implemented **offline-first** behavior with **Room DB** as the source of truth and **Firebase (Firestore + Auth)** as the backend, with reactive updates and conflict handling powered by **Kotlin Coroutines** and **Flow**.
- Used **Hilt** for dependency injection, **Retrofit** for REST integration, **DataStore** for preferences, and **WorkManager** for scheduled background tasks such as recurring expense generation.
- Wrote unit tests for use cases and ViewModels using **JUnit**, **MockK**, and **Turbine** to validate domain logic and state transitions.

Skills & Technologies

- **Mobile Development:** Flutter, Dart, Native Android (Kotlin, Jetpack Compose, Android SDK)
- **Architecture, Patterns & State Management:** Clean Architecture, MVVM, MVI, BLoC, DDD, SOLID, Provider, GetX, Stacked Services, StateFlow, Flow, ViewModel
- **Native ↔ Flutter Interop:** Platform Channels (MethodChannel, EventChannel), Pigeon, Platform Views (AndroidView)
- **Frameworks & Libraries:** Hilt, Retrofit, OkHttp, Room DB, DataStore, WorkManager, Navigation Compose, Coroutines, Lifecycle-aware components, Dio, Hive, GoRouter, get_it, Freezed, Injectable
- **Backend, APIs & Engagement:** REST APIs, WebSockets, Firebase (Auth, Firestore, Crashlytics, Remote Config, Analytics, FCM), MoEngage, AppsFlyer, Push Notifications (FCM), Deep Linking, In-App Messaging, Postman, Swagger
- **Testing:** Test-Driven Development (TDD), Unit, Widget, BLoC, Integration & Compose UI Testing, JUnit, MockK, Mockito, Turbine, Code Coverage Optimization
- **CI/CD, Tools & Foundations:** GitHub Actions, Fastlane, Gradle, Play Console, App Store Connect, Firebase App Distribution, Git, Android Studio Profiler, VS Code, Dart Dev Tools, Performance Profiling, Jira, ClickUp, Data Structures & Algorithms, OOP, Design Patterns

Education

Lakshmi Narain College of Technology | Bhopal, Madhya Pradesh

Bachelor's degree in Computer Science and Engineering | 05/2022

9.15 CGPA

Languages

English, Hindi