

Aashish Ranjan

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Senior Android developer with close to 6 years of experience building production apps at consumer scale. B.Tech in Computer Science & Engineering from IIT (ISM) Dhanbad. Expertise in Kotlin, Jetpack Compose, and modern Android architecture, with a track record in app reliability, release quality, and developer-productivity tooling. Promoted from SDE2 to SDE3 at DailyRounds / Marrow; earlier at Swiggy on the Traffic and Acquisition stream. Recently built Chronarch, an original focus-productivity app, end-to-end from concept through CI to a Google Play release.

TECHNICAL SKILLS

- **Languages:** Kotlin, Java (OOP, Data Structures, Algorithms), SQL
- **Android:** Jetpack Compose, Android SDK, Jetpack (ViewModel, Navigation, Room, WorkManager, DataStore, Paging, LiveData), Coroutines and Flow, foreground services, offline caching, Material 3, adaptive UI, localization and accessibility, custom views and animation
- **Architecture:** Clean Architecture, MVVM, MVI, multi-module (Gradle convention plugins, version catalog), unidirectional data flow, SOLID, dependency injection (Hilt)
- **Libraries and SDKs:** Retrofit, Moshi, Glide, Coil, Lottie, Firebase suite, Mixpanel, CleverTap, AppsFlyer, Truecaller, Facebook, MediaPipe / TFLite
- **Build, test & delivery:** CI/CD, GitHub Actions, Gradle, Git, R8 / ProGuard, Detekt and static analysis, JUnit, MockK, MockWebServer, instrumentation testing, AI-assisted development, release management, Google Play Console
- **Reliability and observability:** Firebase Crashlytics, New Relic APM, LeakCanary, Chucker, Charles Proxy, Android Studio Profiler, Perfetto; BigQuery and Looker Studio for crash and engagement analysis
- **Security:** Mobile app hardening and RASP (DexGuard), root and tamper detection
- **Leadership & Collaboration:** Technical leadership, mentoring, technical interviewing, cross-functional collaboration.

EXPERIENCE

Independent Android Developer

Feb 2026 - Present

Upskilled in modern Android (Jetpack Compose, multi-module architecture, on-device inference), then built two apps end-to-end, one released to Google Play closed testing.

PROJECTS

Chronarch - Focus timer with a rewards system, released to Google Play. ([GitHub link](#))

- Owned the app end-to-end: concept, UI, architecture, implementation, testing, CI, and the [Google Play release](#).
- Built with Kotlin, Jetpack Compose, Clean Architecture, Hilt, Room, and Kotlin Coroutines and Flow.
- Implemented foreground-service focus sessions with persistent and completion notifications and deep links.
- Applied Material You theming and adaptive layouts to support phones, tablets, and foldables.
- Set up GitHub Actions CI with Detekt and SARIF code scanning, AI-assisted code review, and hardened least-privilege workflows.

CaloryTracker - Multi-module nutrition tracker with on-device food recognition ([GitHub link](#))

- Structured as a 9-module Clean Architecture codebase with framework-free JVM domain modules, Gradle convention plugins, and a version catalog.
- Built with Jetpack Compose, Hilt, Room, Retrofit, and Moshi.
- Implemented on-device image classification using MediaPipe Tasks Vision with a bundled TensorFlow Lite model.
- Integrated the Open Food Facts REST API for food search with a custom paginator.
- Added tests across use cases, repository, and API layers, plus Room DAO instrumentation tests.
- Extended a multi-module architecture course project with the on-device image recognition, broader test coverage, and the convention-plugin build.

Software Development Engineer 3 (Android), DailyRounds / Marrow

Apr 2025 - Jan 2026

- Owned the Marrow app's Android 15 migration end-to-end: audited platform behavior changes, handled edge-to-edge and window-inset changes, verified affected screens, and produced a readiness document and a team-wide QA checklist
- Introduced data-backed release monitoring, using BigQuery crash logs to assess release stability and gate staged rollouts
- Delivered critical features such as video flow redesign, skip functionality in part-based Grand Tests and revamped plan purchase flow.
- Drove app stability up through targeted crash and ANR fixes, moving the crash-free rate from 97.8% to 99.7% and the ANR rate from 0.43% to 0.20% (Play Console)

Software Development Engineer 2 (Android), DailyRounds / Marrow

Nov 2023 - Mar 2025

- Standardized the GitHub PR workflow (PR templates, release labels, commit-message and branch-naming using git hooks) and cut CI cost by removing redundant test runs; the iOS team adopted it too.
- Built an in-house Android SDK that fires on-device notifications with logs the instant a crash or ANR occurs, helping catch issues early in dev and QA; shipped as a versioned artifact consumable locally or from a remote registry via config flag, and adopted as standard tooling.
- Primary point of contact for the Marrow Android app: led app-side sprint execution (PRD/design reviews, solutioning, task breakdown), introduced an Android Release Manager role and a pre-development design sign-off gate, mentored engineers, and ran SDE1 hiring loops
- Owned Android app-health monitoring: led the app-vitals OKR with weekly reviews, clearing legacy crashes including a foreground-service violation at 1,000+ crashes/week, and built a Looker Studio dashboard on Firebase Analytics for login/signup performance and feature engagement tracking, with automated weekly reporting.
- Delivered key features: image-URL authentication, device-level KYC (web SDK), in-app notes purchase involving payment-flow revamp, interactive videos, Mixpanel integration, and in-app rating flow that lifted the Play Store rating from 3.9 to 4.3; also delivered Android 14 support across the Marrow and India Drug Index apps.

Independent Study | 2023

- Rebuilt Android fundamentals through hands-on projects covering Jetpack, MVVM, Clean Architecture, and offline-first patterns, alongside intensive Kotlin and data structures practice, ahead of joining DailyRounds / Marrow.

Software Development Engineer 1 (Android), Swiggy

Jun 2019 - Jan 2023

- Delivered the New User Onboarding Experience revamp in Swiggy App, enhancing login/signup UX, integrating dynamic animations to boost signup conversions, and improving location search capabilities
- Shipped a set of low-friction authentication features: OTP-less call verification, WhatsApp One-Tap login, Truecaller signup autofill, and multi-device logout. Proposed and implemented SMS Retriever for automatic OTP entry
- Integrated growth and user acquisition SDKs, coordinating directly with the vendors: CleverTap push templates, the CleverTap-Xiaomi push SDK for delivery on Xiaomi devices, Facebook deferred deep linking, and the Truecaller login SDK.
- Android point of contact for the Traffic and Acquisition stream: owned features end-to-end through post-release monitoring and on-call, set up product analytics (Firebase Analytics, AppsFlyer, CleverTap), and refactored legacy modules toward SOLID.

EDUCATION

Indian Institute of Technology (Indian School of Mines), Dhanbad
Bachelor of Technology, Computer Science and Engineering

2015 - 2019