Karan Karhale

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Skills

- **Programming Languages:** C++, Java, Kotlin, JavaScript, SQL
- **Android Architecture & Frameworks:** Android SDK, MVVM, MVI, Clean Architecture, Design Patterns, Offline-First Storage, Coroutines, LiveData & Flows, Room, SQLDelight, WorkManager, RESTful API, Push Notifications
- **Libraries & SDK:** Dagger, Hilt, Retrofit, OkHttp, OAuth, JWT, Glide, ExoPlayer, CastPlayer, Razorpay SDK
- **Tools & Platforms:** Gradle, R8, ProGuard, Jenkins, CI/CD, Git, Firebase Suite (FCM, Remote Config, A/B Testing), Google Play Console

Work Experience

Flipkart, Bangalore　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jul 2022 - Present
Software Development Engineer

Video Commerce & Creator Platform

- Engineered the end-to-end affiliate program onboarding flow, successfully scaling the creator community to over 50K members.
- Developed a comprehensive creator toolkit to streamline the content creation process, featuring a robust media upload flow and custom UI components like a frame-by-frame thumbnail selector.
- Enhanced the content consumption experience by integrating the Cast SDK (CastPlayer), enabling users to seamlessly stream video to external devices.
- Drove a 17X rise in platform engagement during 2025 through key feature development and system improvements.

Android Vitals Improvement

- Improved application startup time by 20% by implementing Baseline Profiles (15% gain) and startup profiles (5% gain).
- Achieved a 10% reduction in app size through R8 full mode implementation, precise resource shrinking, and dependency graph optimization.
- Led the migration to Android 14 & 15, ensuring full compliance with Google Play policies by addressing scoped permissions, foreground service restrictions, and background task optimizations.

SDLC Improvements

- Designed and executed **One-Click Deployment** using Google Play Developer APIs, successfully automating the release process and reducing release turnaround time by an estimated 50%.
- Migrated Jenkins CI/CD pipelines to a new internal platform, engineering custom solutions for missing features like merge triggers and webhook support.
- Developed synthetic analysis scripts to monitor core metrics (app startup, page load time, app size), preventing regressions in pre-release builds.

Education

IIT Roorkee　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2018 - Jun 2022
B.Tech. in Electronics & Communication Engineering

Awards and Certificates

- Received the Instant Karma Award at Flipkart for delivering high-impact projects with flawless execution during the Performance & Development Cycle.

Personal Projects

Curiate App - Content Aggregator

- Engineered a content-saving app that allows users to save and organize content from any app (e.g., YouTube, Instagram, News, e-commerce apps) via Android's Share Intent.
- Implemented background processing to automatically parse metadata, generate a clean reader-mode view, and store content in a Room database.
- Built a personalized content discovery feed by integrating with third-party REST APIs to provide recommendations with a search feature.
- **Tech Stack: Clean Architecture, MVVM, Retrofit, Room, Dagger, Hilt, RecyclerView**