

HITESH CHOPRA

Software Development Engineer - II (Android)

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SUMMARY

I am a skilled Android Software Engineer with experience in developing high-performance applications. My expertise lies in utilizing Kotlin, XML, Jetpack Compose, and strong architectural principles to enhance user experiences. I thrive in collaborative environments and enjoy mentoring junior developers.

EXPERIENCE

- InMobi** Bangalore, India
October 2023 - Present
 - Software Development Engineer - II (Android)
Mobile advertising technology company — 1Weather app
 - Enhanced user experience and functionality of the **1Weather app**, improving performance and usability for millions of users.
 - Optimized first frame rendering to achieve a **57% reduction in warm start** and a **43% reduction in cold start time**, dramatically boosting app performance.
 - Engineered the integration of **Jetpack Compose** into an **XML-only codebase** for seamless interoperability and developed an end to end feature in it.
 - Responsible for **managing tech debt** in the Android app, conducting hygiene checks every 3-6 months to upgrade libraries, ensure compliance, and adapt to new OS versions.
 - Integrated **baseline and startup profiles**, reducing app startup time by 5%.
 - Proposed and implemented **Firebase Performance Monitoring** with multiple **custom traces** to enhance app **observability** and improve performance tracking.
 - Migrated an end-to-end app from **Android 13 to Android 14**, and from **Android 14 to Android 15**, ensuring compatibility and leveraging new platform features.
 - Architected a custom solution for dynamically adding/removing ads in binge-view content using the **Paging3 library**, extending its functionality beyond standard support.
 - Serving as the **metric owner for app performance** monitoring, overseeing performance metrics for the app.
 - Revamped the whole home page of the app as per the latest design, **integrating collapsing toolbar** in the app.
- ShareChat** Bangalore, India
Feb 2022 - September 2023
 - Software Development Engineer (Android)
Social media platform — Moj app with 160M+ monthly active users
 - Contributed to the Moj livestream team serving **over 160 million monthly active users**.
 - Executed Agile methodology and worked extensively on **Kotlin and Jetpack Compose** with **Clean Architecture** and **MVI** architecture.
 - Independently implemented pivotal features for the **Moj Live Gamification Pod**, leading to increased user engagement.
 - Championed the **Co-host preview feature** for an enhanced live experience for creators.
 - Constructed a **versatile generic animation framework**, reducing substantial development time in subsequent releases.
 - Elevated **testing coverage** from **10% to 90%** by writing unit tests and UI tests, ensuring code reliability.
 - Facilitated **Android interviews**, provided mentorship, and contributed to the onboarding process.
 - Executed migration from **MQTT to SSE**, resulting in substantial cost reductions for a live feature.
- Mutual Mobile** Hyderabad, India
June 2021 - Jan 2022
 - Associate Software Engineer (Android)
Mobile app development company — Health and travel applications
 - Established application architecture using the **MVVM** pattern with **Clean Architecture** principles.
 - Built a comprehensive travel, health, and wellness Android app from scratch.
 - Integrated a **subscription flow** using Stripe's Android SDK and APIs.

KEY ACHIEVEMENTS

- **Publications** Published technical articles on advanced Android implementation techniques and performance improvements:
 - Internal Implementation of ViewModel
 - Cleaner Previews with PreviewParameters
 - Ktor-Client Decoded!! What, Why, How and When?
 - Unidirectional Server-Client Communication using SSE in Android

SKILLS

Android: Jetpack Compose, MVVM, MVI, Clean Architecture, Coroutines, Flows, Channels, Room, WorkManager, Dagger2, Hilt, Paging3

Testing: MockK, JUnit, Turbine, UI Tests

Performance: Baseline Profiles, Macrobenchmarks, App Startup Library, Firebase Performance Monitoring

Languages: Kotlin, Java, XML, JavaScript, HTML, CSS, C++

Tools: Android Studio, VS Code, Git, GitHub, BitBucket, Jira, IntelliJ, Postman, Pluto, Charles

Other: Flutter, Node.js, Ktor, Agile, REST, Stripe

PROJECTS

- **MarketO** E-commerce application with modern Android architecture components and clean UI.
 - Designed MVVM architecture with Kotlin Coroutines and Flow for reactive UI updates
 - Built a responsive shopping experience with Material Design components and animations
- **GithubKT** A pure Kotlin application utilizing Jetpack libraries and Compose for UI, Ktor-Client for networking, and Coil for image loading.
 - Built with modern Compose UI for interactive repository browsing and user profiles
 - Implemented offline-first architecture using Room database for local caching
- **MLKitFaceDetector** Android application demonstrating face detection capabilities using ML Kit.
 - Integrated Google's ML Kit for real-time face detection and feature recognition
 - Implemented camera preview with overlay graphics for detected facial features
- **Ktor APIs** Designed and developed the Ktor-API project to showcase advanced features of the Kotlin Ktor framework for building robust REST APIs.
 - Created endpoints with authentication, serialization, and proper error handling
 - Implemented dependency injection and unit testing for API modules
- **Cookpad Clone** Android clone of the Cookpad app, made in Kotlin following the MVVM and Clean Architecture.
 - Implemented recipe browsing, searching, and favorites with Room persistence
 - Built custom UI components for recipe cards and detailed view screens

EDUCATION

- **GGDSD College**
Bachelor of Computer Applications; Percentage: 77%

Chandigarh, India
June 2018 - June 2021