KISHAN SINGH

Sr. Android Developer | Technical Lead

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LinkedIn • GitHub • Portfolio

PROFESSIONAL SUMMARY

9.5+ years of hands-on Android development with deep expertise in enterprise AOSP/Cisco device platforms, real-time communications (WebRTC/SIP), and automated QA testing. Worked on platform-level Android development, security policies (SELinux), MDM integrations, and large-scale system migrations. Built and shipped enterprise solutions including SpectraLink/Cisco VoIP devices, real-time PTT applications, and modernized the Auddia radio/podcast app serving 50,000+ episodes. Also published 30+ consumer apps on Google Play Store. Strong background in working with teams, code reviews, and technical mentoring.

PROFESSIONAL EXPERIENCE

Matellio Inc. • Senior Android Developer

Sept 2022 - Sept 2026 (4 years) | Remote

Worked on designing and developing features for enterprise Android apps on SpectraLink and Cisco devices. Built JNI layers to integrate native code with Android Framework for better performance. Debugged issues and improved app stability. Collaborated with teams across different locations to add features to the device series (V95/V97/CP840/CP860).

- **SpectraLink Enterprise VoIP Platform (2.5 years)**
  Worked on Android development for enterprise VoIP devices (Versity V95/V97, Cisco CP840/CP860). Handled migration from Android 10 to Android 14 across system apps. Set up SELinux policies, Device Owner functionality, and MDM integrations (Airwatch, TestDPC) for enterprise deployments. Maintained system apps like BizPhone (SIP/VOIP using CUCM and Asterisk), PTT, SAFE, Diagnostics, and Sound Stage. Built automated QA tests using Cucumber, TestNG and Appium (50+ test cases) to replace manual testing. Also worked with native code through JNI. Tech stack: AOSP, SELinux, Device Owner, DPC, Gerrit, Jenkins, JFrog, Docker, Cucumber, TestNG, Selenium.

- **Push-to-Talk (PTT) Application (Full-Stack)**
  Built a complete Push-to-Talk system from scratch - Android app (Java/Kotlin), Node.js backend, and ReactJS admin portal. Did research, created 5+ proof-of-concepts with MediaSoup WebRTC for real-time voice. Wrote detailed documentation (162-page technical spec and 80-page user manual). The app handles real-time PTT messaging, channel management, QR-based authentication, device pairing, and MDM integration. Built role-based access control for different user types (Super Admin, Store Admin,

Manager, Employee). Tech: MediaSoup WebRTC, Socket.IO, Retrofit, Firebase FCM, Node.js, ReactJS, MVVM architecture.

- **Auddia/Faidr Radio & Podcast App (9-10 months)**
  Worked on modernizing a radio and podcast streaming app that had 6,200+ AM/FM stations and 50,000+ podcast episodes. Converted the entire codebase from Java to Kotlin. Refactored the app to use MVVM and Repository Pattern, moving all API calls from Activities to ViewModels. Integrated TensorFlow Lite for ad detection and connected it with Discovr Tracks API to replace ads with podcast content. Made the app 30% smaller and fixed lag issues. Helped review code and guide other developers on the team. Tech: Kotlin, MVVM, Repository Pattern, TensorFlow Lite, Room, Coroutines, LiveData.

Knollinfo Technologies • Senior Android Developer

Feb 2017 - Sept 2022 (5.5 years) | Remote + Onsite (Jaipur)

Designed, built, and maintained 40+ Android apps across different categories - VPN, healthcare, e-commerce, real estate, entertainment, productivity, and finance. Handled the complete app development cycle from planning through supporting users after launch. Learned how to monetize apps with subscriptions and in-app purchases. Managed app releases on Google Play Store and optimized performance. Worked with various technologies like real-time chat, VoIP calling, payment systems, location-based features, and offline-first app designs. Notable projects include OnlyVPN (OpenVPN-based VPN client), PMedia (VoIP communication), Dr.Live+ (healthcare appointments), and various marketplace, streaming, and productivity applications. Full portfolio available on LinkedIn and website.

TECHNICAL EXPERTISE

Languages & Platforms: Java (Advanced), Kotlin (Advanced), Node.js, ReactJS, SQL

Android Core: Retrofit, OkHttp, Jetpack Compose/XML, Firebase (FCM, Auth, Storage, Realtime DB), Room Database, SQLite, Realm, Coroutines, LiveData, StateFlow, Architecture Components, Glide, MediaRecorder, Jetpack Media3/ExoPlayer, Lottie

Architecture: MVVM, Repository Pattern, Clean Architecture, MVC, Dependency Injection, SOLID principles

Enterprise & Platform: AOSP, SELinux policies, Device Owner, DPC (Device Policy Controller), MDM (Airwatch, TestDPC), Multi-tenant apps, Role-based access control, EMM/Device management

Real-Time Communication: MediaSoup (WebRTC), Socket.IO, SIP/VoIP (PJSIP, CUCM, Asterisk), MQTT protocol, Audio streaming, Echo cancellation, Video-Audio calls

AI/ML: TensorFlow Lite, Audio classification, Ad detection, Real-time inference

Android Features: Fragments, Location services, Web-service integration, Payment gateways, Chat systems, Push notifications, VPN, QR code scanning

Tools & DevOps: Android Studio, Git, Gerrit, Jenkins, Jira, JFrog Artifacts, Docker, Gradle

Testing: Unit, Cucumber, TestNG, Appium, Selenium, code coverage analysis.

Other Skills: Code reviews, Technical mentoring, Problem solving, Cross-team collaboration, Android debugging (DDMS, ADB, Logcat)

OPEN SOURCE & GITHUB PROJECTS

SMB-SambaAccess-Android (29 stars, 9 forks) - SMB/Samba protocol implementation for Android file sharing

AutoPlayer (20+ stars) - ExoPlayer auto-play with RecyclerView integration

Freedom-OTPView (3+ stars) - Customizable OTP input component

MultiDimens (2+ stars) - Responsive design helper library

Freedom - APK expiry management utility

CountryCodePickerProject Contributor (1.5K+ stars) - Contributed to popular country code picker library

EDUCATION

Master of Computer Applications (MCA) - Jaipur National University

Bachelor of Computer Applications (BCA) - MDSU University

KEY INFORMATION

Total Experience: 9.5 years (5.5 years Knollinfo + 4.0 years Matellio)

Availability: Immediate joiner | Remote (timezone flexible)

Languages: English (Fluent), Hindi (Native)