ROHIT SINGH

Senior Mobile & AI Engineer Android · Flutter · Kotlin · LLM Applications · Python

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PROFESSIONAL SUMMARY

Mobile engineering lead with **12+ years** delivering **13+ production apps** to Google Play and the Apple App Store across security, marketplace and field-service platforms. Deep hands-on range across Kotlin/Java, Jetpack, Flutter and native NDK media pipelines, plus full-cycle ownership: architecture, release engineering, store operations and post-launch stability. Currently delivering a large consumer security and smart-home Android platform; product details sit under NDA. Now focused on AI engineering — building LLM products in Python (RAG retrieval, tool-using agents, agent harness/orchestration, evaluation and guardrails) and wiring them into mobile and web apps. Trusted to lead small teams, translate ambiguous requirements into shipped software, and keep products maintainable long after launch.

CORE SKILLS

Mobile: Kotlin, Java, Android SDK, Jetpack (Compose, ViewModel, Room, WorkManager, Navigation), MVVM / Clean Architecture, Coroutines, RxJava & RxKotlin, Flutter & Dart, Material Design, NDK / FFmpeg / Mp4Parser, offline-first sync

AI / LLM: Python, LLM application development (OpenAI GPT, Anthropic Claude, Gemini), prompt & context engineering, RAG (embeddings, pgvector / FAISS, hybrid + rerank retrieval), LangChain / LlamaIndex, agentic tool use & function calling, agent harness design & orchestration, MCP-style tool servers, evaluation, guardrails, token/cost optimisation, FastAPI

Web & Backend: Node.js, Express, REST & JSON APIs, WebSockets, React, Vue, Nuxt, JavaScript (ES6+), HTML5 / CSS3, Firebase, AWS Amplify, JSP / Servlets, Nginx / Apache

Data & Storage: MySQL, SQLite / Room, PostgreSQL, Oracle, MongoDB, Firebase Realtime DB / Firestore, Redis, vector stores, caching layers

Tooling & Practice: Git / GitHub, Android Studio, Xcode, VS Code, Postman, CI/CD pipelines, Play Console & App Store Connect releases, Agile / Scrum, code review, unit & UI testing, AppSec basics

Platforms: Android (5 → 15), iOS, Linux / Unix, Windows, macOS, desktop (Flutter)

PROFESSIONAL EXPERIENCE

Senior Android Engineer — Confidential product company (NDA) — 2022 – Present

Consumer security & smart-home Android platform · details under NDA · Play Store + App Store

- Own end-to-end delivery of a large-scale consumer Android app: account and device control, live and recorded video with event timelines, and push verification.
- Led the **Kotlin + Jetpack migration** of legacy Java modules to MVVM with Compose UI, cutting crash/ANR volume and shortening feature lead time for new screens.
- Built resilient real-time eventing (push notifications, socket reconnects, timeline playback) and offline-tolerant sync for multi-device accounts.
- Delivered a second, installer-facing app — on-site activation, QR scanning, configurator and support tooling, shipped in 8 languages.
- Own release engineering: Play Console & App Store Connect rollouts, staged rollouts, hotfixes and store compliance; partner with QA, backend and product across time zones.

Software Developer — JS TechAlliance, Indore — Apr 2018 – 2022

IT services & mobile solutions · Cross-platform delivery for Indian and international clients

- Shipped the **Galla** distribution platform (Android + web): shopkeeper onboarding, QR-strip inventory and mechanic discount redemption.
- Developed **Jdesk9** — a Flutter project-management suite for distributed agile teams (roadmaps, sprint tracking, real-time reports) on mobile and desktop.
- Delivered e-commerce and marketplace builds — **World Medicine Trade** (customer / seller / admin portals) and **Tuition Wala** (React + Firebase) — owning schema, APIs and deployment.
- Introduced shared Flutter component library and code-review checklist, reducing rework on new client projects.

Android Developer → Team Leader — Shineweb Solution Pvt. Ltd., Noida — Apr 2015 – Apr 2018

Product studio · Led 2–4 developer pods; owned architecture, delivery and store releases

- Led the build of **Pawpular** (pet-community app) and **Tuurnt** (real-time local party discovery with live video and ticketing) as team lead — architecture, UI, release and client demos.
- Shipped **Contractors Work** and **EntrepreneurX / Appendme** with offline media capture: FFmpeg/Mp4Parser video compression, socket chat, maps and FCM.

- Reduced media upload payloads via on-device transcoding, enabling usable photo/video portfolios on low-bandwidth networks.
- Mentored juniors on Kotlin, RxJava and debugging; set the pod's code-review and release process.

Software Engineer (Android) — Eco Tracksys Ltd., Delhi **Jul 2013 – Apr 2015**
Android product house · Consumer utility and social apps

- Delivered across the full app lifecycle — concept, design, build, test, store release and support — for social, utility and offline apps.
- Built **Hindi Dictionary** (offline Hindi→English search with text-to-speech), **APK Extractor** and **Photo Water Ripple Live Wallpaper**, each published on Google Play.
- Optimised memory, caching and rendering paths for low-end devices; performed code reviews and design verification.

SELECTED MOBILE PROJECTS

Galla *Flutter · Android SDK · Node.js · Nuxt* Play Store Web — Distribution app where shopkeepers issue QR strips and mechanics redeem product discounts.

- Shopkeeper and mechanic onboarding, QR-strip issuance and discount redemption with a Nuxt web admin, all on one Node.js API.

Jdesk9 *Flutter · Android Studio · Desktop* Website — Agile project-management suite — roadmap planning, sprint tracking and real-time reporting.

- Roadmap planning, sprint tracking and release reporting with real-time dashboards; single Flutter codebase for mobile and desktop.

Pawpular *Kotlin · RxJava · NDK (FFmpeg) · Socket.io · FCM* Play Store — Pet-lover community with profiles, rescue/sitting/walking services and rich media sharing.

Tuurnt *Kotlin · NDK (FFmpeg) · Live video · Socket.io* Play Store — Real-time local party discovery — create/join events, live video preview and live comments, ticketing.

Contractors Work *Kotlin · PHP / Node.js · FFmpeg · Maps* Play Store — Portfolio and rating app for the construction trades — before/after galleries shared with clients.

EntrepreneurX (Appendme) *Kotlin · Node.js · Chat · Maps* Play Store — Entrepreneur network with customisable profile pages, messenger, event discovery and industry feed.

Hindi Dictionary · APK Extractor · Water Ripple Wallpaper *Android SDK* Play Store — Offline Hindi→English dictionary with TTS, APK backup utility and an interactive live wallpaper.

AI & LLM ENGINEERING

Hands-on AI engineering alongside mobile delivery — designing LLM features that ship: retrieval grounding, tool-using agents, harness/orchestration layers, and the evaluation and guardrails that keep them reliable in production.

RAG Knowledge Assistant *Python · FastAPI · LangChain · pgvector · React* — Document-grounded Q&A over internal knowledge bases

- Hybrid chunking, embedding + keyword retrieval with reranking, citation-linked answers and streaming responses; eval harness tracking faithfulness and answer relevance per release.

Agent Harness *Python · tool calling · MCP-style tools · tracing* — Orchestration layer for multi-step, tool-using agents

- Pluggable tool registry, structured function-calling loop, retries, timeouts, permission scopes and run tracing; step-level evals plus cost/latency budgets per workflow.

Mobile AI Companion *Kotlin · Flutter · streaming LLM APIs · on-device inference* — LLM assistant embedded in a mobile app

- Streaming chat with prompt templates, tool calls into app data, graceful offline fallback and token-budget controls to hold per-session cost.

EDUCATION & CERTIFICATIONS

2013 MCA — Galgotia College of Engineering & Technology
2009 B.Sc. — ECC, Allahabad University
2005 12th — UP Board
2003 10th — UP Board

Certifications: Red Hat Certified System Administrator (RHCSA) — Fostering Linux · Certified Information System Security Expert — VMDD Technologies · Android Developer & Forensic Expert — VMDD Technologies

Languages: English (professional), Hindi (native) **Location:** Indore, MP — open to remote and hybrid roles