

ARAVINDHAN P

Android Developer | 5+ Years of Overall Experience

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PROFESSIONAL SUMMARY

Android Developer with 5+ years of experience designing, building, and shipping production Android applications end to end — native Android architecture (MVVM, Clean Architecture), Kotlin, Java, Jetpack Compose, XML UI, REST and GraphQL API integration, and full Google Play Store release ownership (app signing, .aab builds, staged rollouts, Play Console management).

Published and maintained 7+ live apps across healthcare, e-commerce, job portals, and IoT domains, including HIPAA-compliant systems and on-device AI / Computer Vision features using OpenCV and TensorFlow Lite. Strong background in third-party SDK integration (Razorpay, PayPal, Google Maps, Firebase, Bluetooth/IoT), performance optimization, and crash reduction. Comfortable owning a release from first commit through production rollout and post-launch monitoring.

CORE SKILLS

Languages: Kotlin, Java, XML

Android Development: Jetpack Compose, XML Layouts, MVVM, Clean Architecture, SOLID Principles, Design Patterns, Android Architecture Components (ViewModel, LiveData, Room, Navigation, WorkManager, Paging, DataStore), Android SDK, Material Design, RecyclerView, Multithreading/Concurrency, Kotlin Coroutines, Kotlin Flow, RxJava, SQLite, Dependency Injection (Dagger/Hilt), Gradle (Module & Build Architecture), WebView & JavaScript Bridge Integration

App Release & Deployment: Google Play Console, App Signing, Android App Bundles (.aab), Staged Rollouts, Versioning & Release Management, ProGuard/R8, Crash Monitoring, CI/CD (Jenkins, Fastlane)

Backend & Cloud: Firebase (Auth, Firestore, Cloud Messaging, Cloud Storage, Crashlytics, Analytics, Remote Config), AWS (EC2, Lambda, DynamoDB, Cognito, Amplify), Node.js, GCP Cloud Run, REST API Design & Integration, GraphQL, JSON, Retrofit, React.js, TypeScript

AI / Computer Vision: OpenCV, TensorFlow Lite, On-Device Machine Learning, Real-Time Image Analysis

Integrations: Razorpay, PayPal SDK, Google Maps API, Bluetooth/IoT, Live Video Streaming, Push Notifications

Tools & Practices: Android Studio, Git, GitHub, Jira, Postman, HIPAA Compliance, Unit Testing (JUnit), UI/Screenshot Testing, Accessibility, Code Review, Debugging

PROFESSIONAL EXPERIENCE

Full Stack Developer (Android) — Adiuvo Diagnostics Pvt. Ltd.

October 2023 – July 2026

- Owned the Android release pipeline end to end for 5+ production apps — build signing, .aab generation, staged Play Store rollouts, and version/crash monitoring post-launch — with zero critical post-release defects.
- Led Android architecture across healthcare, AI-powered, e-commerce, and IoT apps used by thousands of active clinical users.
- Integrated OpenCV and TensorFlow Lite for real-time, on-device wound image analysis, enabling AI-assisted clinical decisions without server round-trips.
- Built HIPAA-compliant data handling — encrypted APIs, secure local storage, and role-based access control — and designed database schemas and REST/GraphQL API contracts with backend, AI, and product teams.
- Built an IoT-connected Android app with live video streaming for real-time medical device procedure guidance.
- Designed and built backend REST APIs and a React-based web front end for a healthcare e-commerce platform, integrating PayPal for end-to-end online payments alongside Android app development.
- Restructured Gradle module architecture across multiple apps to cut build times and improve dependency isolation, and set up Jenkins/Fastlane pipelines with UI/screenshot testing for automated builds and releases.

Android Developer — Taizo Technologies Pvt. Ltd.

March 2021 – August 2023

- Built, released, and maintained 2 Android applications in Java across diverse client domains, handling app signing and Play Store publishing for each.
- Implemented Firebase Authentication and Cloud Messaging for secure login and push notifications, and integrated Razorpay and PayPal payment gateways end to end — transaction lifecycle, webhooks, refunds, and error recovery — with zero production incidents.
- Used Google Maps API for geofencing and live route-tracking, and reduced crash rate via memory optimization, lazy loading, and ProGuard tuning.
- Used RxJava for reactive, asynchronous data streams and built WebView-based hybrid screens with a JavaScript bridge to embed web content within native flows.

- Collaborated in Agile teams with designers, backend engineers, and product managers across the full release cycle.

KEY PROJECTS

WoundTele — Wound Care Teleconsultation App

[Android Apps by Auxillium Health LLC on Google Play](#)

[GitHub: woundTissueClassification](#)

- Teleconsultation platform with on-device OpenCV/TensorFlow Lite wound segmentation and severity classification, API-driven patient workflows, and HIPAA-compliant image handling.
- Built a reusable on-device wound tissue classification SDK/module wrapping the TensorFlow Lite model, exposing a clean API for image capture, inference, and result parsing across the app's client surfaces.
- Architected the app using MVVM and Jetpack Compose for a responsive clinical UI, with Retrofit-based REST integration for patient and provider data sync.
- Implemented Firebase Authentication and encrypted Cloud Storage for secure capture, upload, and retrieval of patient wound images.

RxOS Medical — Healthcare E-commerce App

[rxosmedical.com](#)

- Medicine ordering web application with real-time inventory, prescription validation, and order tracking, plus an admin module for order management and analytics.
- Built the front end with React, following a component-based architecture, and integrated REST APIs for catalog, inventory, and order data.
- Integrated PayPal for online payments and implemented notifications to keep users updated on order and prescription status.

CowVuw — IoT Animal Insemination Assistant

[Android Apps by CisGEN Biotech on Google Play](#)

- Android app integrated with an animal AI device via Bluetooth/IoT; introduced live video streaming for real-time remote procedure guidance — a first for the product.
- Implemented a Bluetooth Low Energy (BLE) communication layer to pair with, configure, and exchange real-time data with the IoT insemination device.
- Designed a low-latency live video streaming pipeline to support real-time remote veterinary guidance in the field.

JobPortal — Manufacturing Jobs Platform

- Two-sided Android platform for manufacturing-sector hiring, built as separate jobseeker and employer apps.
- Jobseeker app: job search/filtering, profile and resume management, and application tracking.
- Employer app: job posting, candidate browsing/shortlisting, and applicant communication.
- Built both apps in Kotlin on a shared REST API layer, with Firebase Authentication for secure jobseeker and employer login.
- Implemented resume upload and profile management, along with push notifications for application and hiring status updates.

EDUCATION

B.E. – Mechanical Engineering, Muthayammal Engineering College, Rasipuram (CGPA 7.5/10, 2020)

Diploma – Mechanical Engineering (68%, 2017)

ADDITIONAL INFORMATION

Languages: Tamil (Native), English (Professional Proficiency)

Domain Expertise: Healthcare (HIPAA), Medical IoT, E-commerce, Teleconsultation, Job Portals