

AJAYA VISHVAKARMA

Lead / Senior Android Engineer — OTT · IPTV · DRM · TV Platforms

Delhi, India | +91-7838115152 | sharmajayait90@gmail.com | LinkedIn: /in/ajaya-vishvakarma

PROFESSIONAL SUMMARY

Results-driven **Lead / Senior Android Engineer** with **11+ years of experience** architecting and delivering high-scale mobile, OTT, and TV platform applications. Deep expertise in **ExoPlayer, DRM (Sigma, Cryptoguard), adaptive streaming (HLS/DASH), Android TV, LG WebOS, and Samsung Tizen**. Led end-to-end delivery of 4+ commercial IPTV/OTT products (CaasTV, Panmetro, One IPTV, VK Digital). Proven ability to design **modular, scalable architectures (Clean Arch + DFM)** for large-scale applications. Passionate about performance, security, and cross-platform engineering excellence.

CORE TECHNICAL SKILLS

LANGUAGES

Kotlin, Java, JavaScript

FRAMEWORKS & UI

Jetpack Compose, Android SDK, Leanback (TV)

ARCHITECTURE

MVVM, Clean Architecture, DFM Modularization, MVI

STREAMING & DRM

ExoPlayer, MediaCodec, HLS/DASH/CMAF, Sigma DRM, Cryptoguard, Widevine

TV PLATFORMS

Android TV, LG WebOS, Samsung Tizen

NETWORKING

REST, GraphQL (AWS AppSync), WebSockets, Retrofit, OkHttp

DATABASE & STORAGE

Room, SQLite, Firestore, DataStore, EncryptedPreferences

PERFORMANCE & TOOLS

Coroutines, Flow, Hilt, LeakCanary, Systrace, Firebase, JIRA

PROFESSIONAL EXPERIENCE

Lead / Sr. Software Engineer
Waveion Technologies · Gurugram

Mar 2025 - Present

- Architected and shipped **4 commercial IPTV/OTT products** (CaasTV, Panmetro, One IPTV, VK Digital) from 0→1 with full ownership across design, development, and client delivery.
- Engineered **multi-platform TV apps** on Android TV, LG WebOS, and Samsung Tizen — achieving sub-2s cold start and smooth 60fps playback on constrained TV hardware.
- Implemented **DRM-secured streaming pipeline** integrating Sigma and Cryptoguard, ensuring compliance with premium content protection standards for 50K+ concurrent users.
- Built adaptive playback engine using **ExoPlayer + HLS/DASH** with ABR logic, reducing buffering events by ~40% on low-bandwidth connections.

- ▶ Introduced **Clean Architecture + DFM modularization**, cutting feature delivery time by 30% and enabling parallel team development.

Sr. Software Engineer

2019 - Mar 2025

Appy Pie LLP · Remote

- ▶ Built core modules of a no-code **AppBuilder platform serving 10M+ users**, enabling non-technical users to publish Play Store apps with a drag-and-drop interface.
- ▶ Delivered OTT streaming features with **adaptive video playback (HLS/DASH)**, integrated into AppBuilder ecosystem for media app templates serving 500K+ app creations.
- ▶ Reduced app crash rate from **2.3% → 0.4%** by implementing systematic crash monitoring (Firebase Crashlytics) and memory profiling sessions.
- ▶ Led migration from Java to **Kotlin + Coroutines** across 3 major modules, improving code readability and eliminating callback-hell patterns.
- ▶ Integrated **15+ third-party SDKs** (payments, analytics, push, ads) with clean abstraction layers for easy swap-out.

Sr. Software Engineer

2017 - 2019

CWS Technology

- ▶ Developed **3 production Android apps** in finance, sports, and education verticals with 100K+ combined installs.
- ▶ Implemented **real-time data sync** via WebSockets and introduced offline-first architecture with Room DB + sync manager.

Software Engineer

2014 - 2017

Samin Tekmindz

- ▶ Built banking and automotive Android apps with **PCI-DSS payment integrations** and biometric authentication.
- ▶ Delivered features across **5+ apps** in agile sprints; mentored 2 junior developers.

KEY PROJECTS

CAASTV / PANMETRO IPTV

End-to-end IPTV app with 500+ channel EPG, DRM, multi-screen casting, and resume playback for Android TV + Mobile.

ONE IPTV PLATFORM

Cross-platform (Android + LG WebOS + Tizen) IPTV app with unified backend integration and adaptive bitrate streaming.

APPBUILDER OTT MODULE

No-code OTT app builder template serving 500K+ app creations with embeddable streaming and monetization SDKs.

DRM SECURE PIPELINE

Custom Sigma + Cryptoguard DRM implementation with license caching, offline

downloads, and automatic key rotation.

EDUCATION

B.Tech in Information Technology

UNS Institute of Engineering and Technology, Uttar Pradesh | 2008-2012 | 68.4 %