

# Prinkal Kumar *Android Engineer*

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## Profile

Highly experienced Android Lead Engineer with over **9 years** in mobile application development, distinguished by a **GATE 2015** qualification. Proficient in architecting, developing, and optimizing complex software systems using Android SDK, Kotlin, and Java. Deep expertise spans critical areas like SQL, Web Services APIs, and specialized application domains including eCommerce, Android Auto, Android TV, Voice Assistance, and Social Media, ensuring high-quality, scalable, and maintainable solutions.

## WORK EXPERIENCE

**Lead Engineer** 04/2022 – Present  
Radisys, Gurugram

**Radisys, Gurugram 04/2022 – Present**

- Led and mentored a team of Android developers, fostering a high-performance environment and ensuring adherence to best practices in **MVVM architecture**, **Kotlin**, and scalable mobile system design.
- Integrated **AI-powered voice-assistance features** leveraging **Natural Language Processing (NLP)** and **machine-learning-driven intent recognition** to enable hands-free user interactions.
- Designed and implemented **LLM-enabled conversational workflows** for dynamic skill-query responses (Weather, News, Dictionary), improving contextual understanding and response accuracy.
- Collaborated with cross-functional teams (AI/ML, backend, IoT, product) to align **ML model inference**, **cloud-based AI services**, and mobile application delivery.
- Integrated **IoT and edge-computing solutions** with AI-driven decision logic to support real-time in-vehicle command execution (e.g., window control, AC management).
- Drove continuous improvement initiatives by analyzing **telemetry**, **user interaction data**, and **ML inference latency** to optimize performance and responsiveness.
- Mentored junior developers on **AI-ready mobile architectures**, clean code practices, and collaborative development workflows.
- Awarded **Employee of the Year (2023)** for exceptional engineering contributions.

**MG Auto Project**

- Led the development of a flagship **Android Auto** application delivering a robust **AI-driven voice-assistance platform**.
- Implemented **LLM-backed conversational interfaces** for multi-domain knowledge queries and **ML-based intent classification** for safety-critical in-vehicle commands.
- Enabled seamless **speech-to-text (STT)**, **text-to-speech (TTS)**, and **context-aware response generation**, significantly enhancing the hands-free driving experience.

**Jio Speaker Companion** : Similar to Amazon Alexa app, App is responsible to send/ receive commands to IOT devices and control media streaming via App.

**Jio SetTopBox** : Engineered the voice-assistance module for the Jio SetTopBox Android TV application, facilitating hands-free interaction via the TV remote. This involved developing the capability to process and display dynamic responses to various skill-queries, including real-time Weather, News updates, Horoscope predictions, and Dictionary lookups.

#### **Senior Software Engineer**

03/2019 – 03/2022

Capgemini Engineering, Gurugram

**Samsung Clock app** : On-site Android Developer at Samsung, India, managing the full development lifecycle of the **Samsung Clock** application. Played a key role in new feature implementation, including performance optimizations and bug fixes, directly impacting a major native application on millions of devices.

**Arena Workflow Manager (Airbus)** – A comprehensive tool developed within the Arena-Ecosystem, aiming to unify team management, time control, database access, and report extraction functionalities into a single integrated application. This included leveraging AI/ML for automated ticket assignments.

#### **Software Engineer**

11/2017 – 02/2019

Ahead Websoft Technologies, Gurugram

**Social Engine app** : Contributed to the full development lifecycle of a native Android application, leveraging the SocialEngine platform. Responsibilities included designing, implementing, and maintaining robust APIs using Java and Kotlin to ensure seamless functionality and data exchange.

#### **Associate Engineer**

10/2015 – 10/2017

MobiFly, Gurugram

Engineered several Android applications with a modern and intuitive UI, leading to over **1,000+ downloads** in the Google Play Store.

## **EDUCATION**

#### **Bachelor of Technology (CSE)**

2015

Radha Govind Engineering Collage, Meerut

#### **Intermediate**

2011

G&H High School, Ranchi

#### **High School**

2009

Saraswati Sishu Vidya Mandir, Ranchi

## **SKILLS & TOOLS EXPERIENCE**

#### **Frameworks & Libraries:**



Android SDK, Jetpack Compose, Coroutines, RxJava, Dagger/Hilt, ViewModel, LiveData, Data Binding, Navigation component, Work Manager, Room, MVVM

#### **Programming Languages:**



Kotlin, Java, GoLang

#### **Hybrid Framework**



React Native, Compose.Kotlin MultiPlatform

#### **Tools:**



Android Studio, VS code, Cursor IDE