

# Sagar Gupta

Senior Software Engineer & AI Automation Engineer

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## EXPERIENCE

### **Bharti Airtel Limited, Gurugram, India — Senior Software Engineer**

August 2021 - January 2026

- Leveraged **AI-assisted development workflows** (GitHub Copilot, LLM prompt engineering) to accelerate unit test generation and boilerplate reduction, increasing sprint velocity by **20%** and optimizing code quality.
- Led the migration to **Jetpack Compose** and Clean Architecture, refactoring legacy XML layouts into reusable Composables to improve UI rendering performance and modularize the codebase for rapid scaling.
- Architected a 'Smart PagingSource' (stale-while-revalidate) for the IPTV app, bypassing Remote Mediator limitations to boost performance.
- Identified and resolved critical IO chokepoints (e.g., JSON parsing, DB access) to enhance responsiveness on low-end (2GB) devices.
- Engineered and maintained core components for Android TV & STB, including the Electronic Program Guide (EPG) and a robust Over-the-Air (OTA) update system.
- Solved complex Paging 3 race conditions and infinite-loop bugs using object-based 'diff checks' and coroutine-based timestamp cooldowns.
- Optimized Xsafe video streaming, improving playback stability by 25%, and designed testable, Clean Architecture, reducing unit testing time by 30%.

### **Dew Solutions Private Limited, Gurugram, India — Software Engineer**

February 2020 - July 2021

- Architected secure financial modules for the **TataNeu super-app** (Credit Line, Personal Loan), integrating **biometric authentication** and KYC flows (Karza, E-KYC) while ensuring strict compliance with banking security standards.
- Wrote elegant, self-documenting code, easy to read and adapt for other

## SKILLS

**Languages:** Kotlin, Java, JavaScript, TypeScript.

### **Platforms & Frameworks:**

Android Native, Kotlin Multiplatform (KMP), React Native, Android TV/STB, Jetpack Compose, Android Jetpack

### **Architecture & Libraries:**

MVVM, Clean Architecture, Kotlin Coroutines, RxJava, Dagger/Hilt, Koin, Retrofit, Redux, RoomDB, Paging 3

**Tools & Cloud:** Firebase, AWS, BLE, Git, Jira, **GitHub Copilot**, **ChatGPT/Gemini (AI-Assisted Dev)**.

## CERTIFICATIONS

### **Deep Learning Specialization**

- Coursera

### **Android Developer**

Nanodegree - Udacity

### **Advanced Design Patterns:**

**Design Principles** - LinkedIn Learning

### **Design Patterns: Creational** -

LinkedIn Learning

### **Programming Foundations:**

**Design Patterns** - LinkedIn Learning

developers.

### **AdGlobal360 India Pvt Ltd, Gurgaon, India — *Android Developer***

January 2019 - February 2020

- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements.
- Developed applications for Maruti Suzuki, including Maruti Suzuki Rewards and True Value.

### **Mobineers Info Systems Pvt Ltd, New Delhi Area, India — *Android Developer***

February 2017 - January 2019

- Developed and maintained core application features for IoT systems, integrating directly with BLE-enabled hardware, printers, and other connected devices.

### **Mindaro Technologies, New Delhi Area, India — *Android Developer***

January 2016 - January 2017

- Researched and developed mobile Android app to help users efficiently locate all services within immediate location.

## **EDUCATION**

### **Integral University, Lucknow, Uttar Pradesh — *Master's Degree, Computer Software and Media Applications***

July 2016 - July 2019

## **PROJECTS**

### **AI-Driven Content Engine (n8n)**

- Designed and deployed multi-stage **n8n workflows** for automated YouTube channel management.
- Automated the end-to-end lifecycle—from script generation and SEO metadata to multi-platform distribution—increasing content output by [X]% while maintaining 100% manual review efficiency.
- n8n, OpenAI API, Gemini, JSON, Webhooks.

### **IPTV (Airtel Xstream Play) — *Airtel***

- Engineered core features including the Electronic Program Guide (EPG) and Over-the-Air (OTA) update mechanisms for Android TV & STB.
- Architected a 'Smart PagingSource' and resolved IO chokepoints to

## **LANGUAGES**

**English** (Professional Working)

**Hindi** (Native or Bilingual)

dramatically improve data loading and UI performance on low-end (2GB) devices.

**Airtel Xsafe** — *Airtel*

- Designed testable architecture, reducing unit testing time by 30%.
- Optimized Xsafe video streaming, improving playback stability by 25%.

**TataNeu** — *Dew Solutions*