

# Jitendra Singh

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## Skills

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- **Programming Language:** Java, Kotlin, C/C++.
- **Android:** Android SDK, Jetpack Compose, Clean architecture, MVVM, MVP, Automotive, AOSP, Coroutines, Dagger-Hilt, Live Data, RxJava, XML, Retrofit, Google Analytics, Firebase, NFC, Bluetooth Low Energy, Exo-Player, JUnit, Espresso.
- **Development Tools:** Android Studio, IntelliJ IDEA, SonarQube, GitHub, Bitbucket.
- **Database:** SQLite, Room Database, and MySQL.
- **Operating Systems:** Windows, Linux, MacOS.

## Work Experience

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### Specialist

May 2021 - Present

#### Tata Elxsi, Bangalore

- Engineered key modules for the Discovery plus app such as Session timer, Streaming video quality, and Download space meter indicator using Kotlin and Jetpack Compose.
- Optimized discovery plus app by refactoring and applying best practices, achieving a 20% improvement in app performance and stability.
- Led the team and managed releases utilizing tools like Mux, Playstore, New Relic, and Firebase Crashlytics for post-deployment monitoring.
- Contributed to increasing test code coverage across multiple modules, achieving a 60% to 100% coverage, made the app more resilient and provided seamless experience to users.

### Software Engineer

Jan 2019 - May 2021

#### JMR Infotech, Bangalore

- Developed a solution for seamless connectivity between the INAS app and NFC reader machine, ensuring a smooth transaction process.
- Led the development team and ensured the successful rollout of the INAS app to end customers.
- Architected core modules for the INAS app, such as beneficiary management, card activation and withdrawal, beneficiary data downloads, and transaction history tracking.
- Managed app releases, prioritized and resolved crashes to enhance overall app performance and stability.

### Android Developer

Sep 2017 - Jan 2019

#### UnionsApp, Jaipur

- Developed the Unions app and implemented chat feature using WebSocket technology for real-time communication.
- Enhanced user interface designs, driving a 25% increase in user engagement and overall app usability.
- Collaborated closely with the product management team to understand the requirements and design the application workflow.
- Engineered key modules such as Chat, News Feed, and integrated a payment gateway using MVP architecture, Volley and Java.

### Android Developer

Aug 2015 - Sep 2017

#### Appwallaz, Jaipur

- Developed the Awakekey android app, enabling users to connect with the awakekey lock and perform unlock operations directly from the app using BLE.
- Integrated push notifications and reminders for lock tracking, resulting in an increase in monthly user retention.
- Managed release processes and updates for the application on the Google play console.

## Education

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- MCA from Maharishi Arvind Institute of Science & Management, Jaipur with 65%. May 2015
- BCA from Aryan International College, Ajmer with 69%. Apr 2012
- Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Software Engineering.

## Projects

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- **Discovery Plus** : Contributed to the features development of the Discovery+ OTT app across Mobile, TV, STB, and Fire TV platforms. Implemented an API retry mechanism with a retry count, using an exponential backoff strategy to handle failed network calls.  
Tech Stack: Kotlin, Java, Clean architecture, Jetpack Compose, Retrofit, Coroutines, Exo Player, RxJava, Koin-DI, Espresso, Junit.
- **SonyLiv** : Implemented key features for the Sony Liv app, including Subscription Hook, Deep Linking, Set Reminders and integrated the Usabilla SDK to capture user feedback.  
Tech Stack: Java, MVVM, XML, Dagger-Hilt, Exo Player, JUnit, Firebase Crashlytics.
- **INAS Paypoint**: Worked on implementing an algorithm to establish a connection between the app and devices and developed key modules to facilitate the distribution of subsidies to citizens in Mozambique.  
Tech Stack: Java, MVP, XML, Rx-java, Room Database, Data Binding, Dagger2 and Retrofit.
- **Unions App**: Implemented key modules, including one-to-one and group chat functionality and Q&A Forum. Added unit test cases to ensure code quality and resolved bugs to enhance the application's stability and performance  
Tech Stack: Java, MVP, WebSocket, REST API, XML, RxJava, Push Notifications, SQLite, and Volley.
- **Awakey**: Developed the IoT app with lock/unlock functionality for mobile devices. Used MVP architecture, participated in code reviews, and contributed unit/integration testing and bug fixes.  
Tech Stack: Java, MVP, Bluetooth Low Energy, REST API, XML, Firebase, SQLite, and Volley.

## Awards and Certificates

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- Android OS Internals / AOSP Automotive Development on Udemy.
- Kotlin Essential Training on LinkedIn Learning.
- Received a Certificate of appreciation from JMR Infotech for leading the development and rollout of the INAS application to end customers.