

Ashutosh Rai

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Education

Sarala Birla University
BTech in Computer Science & Engineering

Sept 2020 – May 2024

Experience

Associate Software Engineer (Android Developer)

MapmyIndia(C.E.Infosystem Pvt Ltd)

Jan 2024 – Current

- Built and maintained scalable enterprise Android apps using Java, Kotlin, Jetpack Compose, MVVM, and Clean Architecture & Collaborated with cross-functional teams to design and implement new features .
- Applied best practices, code reviews, and Android trends to ensure reliable, maintainable code.
- Collaborated closely with Product, QA, Design , and Backend teams to ship features and integrate RESTful APIs.
- Optimized app performance, resolving ANRs & reducing crash rate by 25%, while boosting responsiveness by 40%.
- Integrated third-party SDKs (Firebase, Map APIs, QR scanners) to enable modern, secure app features.

Projects

SUDA – Property Survey Application — Chhattisgarh Government

- Designed and developed the entire UI, ensuring a seamless user experience.
- Developed login authentication, dynamic forms, ML Kit QR scanning, search filters, and image upload features.
- Used Compose with MVVM + Clean Architecture for a scalable, efficient codebase.
- Implemented background tasks with WorkManager—receipt downloads, notifications—ensuring reliability across restarts.

BYD Navigation App — Mappls Map

- Delivered navigation features for BYD infotainment systems (Sealion 7), integrating Mappls Auto SDK.
- Resolved ANRs & improved UI responsiveness by profiling & optimizing custom view rendering & heavy layout operations.
- Handled and screen transitions using stateFlow,kotlin coroutines, and ViewModel-driven architecture.
- Synced app behavior with vehicle-state events for reliable performance on production hardware.

KTC Customer App — Mappls Map App Link

- Developed a feature-rich cab booking app from the ground up using React Native.
- Leveraged Redux for state management, async/await with Axios for APIs, and SQLite for offline data persistence.
- Delivered secure booking history, quick re-booking, and smooth user experience across multiple locations.
- Optimized codebase using modular design and React Native best practices, delivering a reliable experience for 500+ active users across 50+ locations.

Music Sync App Kotlin, Jetpack-compose

- Built modern Android app with MVVM + Single-Activity architecture.
- Developed real-time playback sync via broadcast/notification system & foreground service.
- Integrated MediaSession + NotificationManager for lock-screen & rich media controls.
- Used Jetpack libraries (Room, Paging, WorkManager, Navigation, LiveData) for scalable design.

Technologies

Android Development: Kotlin, Jetpack Compose, Android SDK, LiveData,ViewModel, Room, SQLite, RESTful APIs, Clean Architecture, MVVM, App Optimization & Security.

Programming Languages: C++, C, Java, SQL, JavaScript, Dart, Kotlin

Mobile Development: React Native, Flutter,Android (Java/kotlin/Jetpack Compose)

Backend Development: Node.js ,Express.js , MongoDB , JDBC.

Technical Skills : Analytical problem-solving, Data Structure & Algorithm ,Git, Gitlab.