

# Papan Manna

6294284798 | mannapapan.r@gmail.com

## EDUCATION

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**Meghnad Saha Institute Of Technology, Kolkata**

2014 - 2018

*Bachelor of Technology, Computer Science*

## EXPERIENCE

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**BookMyForex - MakeMyTrip Group**  
(Senior Software Engineer)

Jan 2023 – present

- Led end-to-end development and maintenance of the BookMyForex Android application, supporting over 100K+ active users with high reliability and performance.
- Architected and delivered core features using Kotlin and Java, following MVVM architecture with ViewModel, LiveData, Dependency Injection, and Kotlin Coroutines, and improved feature delivery velocity.
- Optimized application performance through battery usage improvements, code refactoring, and ProGuard/R8 obfuscation, resulting in a ~25–30% reduction in ANRs and crashes.
- Integrated multiple Firebase services, including Push Notifications, Dynamic Links, Remote Config, Crashlytics, and In-App Messaging, driving a ~70% increase in user engagement and faster issue resolution.
- Implemented EncryptedSharedPreferences and secure storage practices, strengthening sensitive data protection, and reducing security vulnerabilities by approximately 90%.
- Migrated approximately 20% of native Android flows to Next.js, embedded via a secure WebView, reducing development effort for shared web features by approximately 40%.
- Designed and implemented a custom native-to-JavaScript bridge SDK, enabling seamless communication between Android and web layers, with zero data-loss incidents.
- Led the gradual React Native adoption, revamping nearly 30% of application screens, and accelerating cross-platform feature rollout by approximately 50%.
- Integrated and optimized payment and forex-related workflows, achieving a ~90% transaction success rate, and significantly reducing payment failures.
- Actively mentored team members, reviewed architecture decisions, and ensured long-term scalability and maintainability of the mobile platform.
- **DeliverFX:** Developed the delivery executive application from scratch using Next.js and styled components. Implemented a bridge SDK to communicate with native features.

**ST Labs, Bangalore**  
(Mobile Engineer II)

May 2021 – Dec 2022

- **Six Sigma Sports:** Developed a decentralized sports betting Android app built on the Solana blockchain.
- Used MVVM Clean architecture with Dagger-Hilt for dependency injection.
- Integrated gRPC-based blockchain communication for real-time updates.
- Connected third-party real-time feed providers for live match data.

**Geotech Infoservices Pvt Ltd, Kolkata**  
(Software Engineer)

Jul 2018 – May 2021

- Worked as a full-stack mobile engineer across Android (Java, Kotlin), iOS (Swift), and web (PHP, Symfony, JavaScript).
- Collaborated on multiple end-to-end projects across diverse domains.
- **Real Fantasy Teams:** Developed core features like team creation, formation editing, and in-app purchases. Integrated RxJava and various payment gateways, like Paytm and Google Pay.
- I have taken care of the security concerns, e.g., code obfuscation, local data encryption, etc.
- **AXA IN (Connqtech):** Built a real-time bike tracking Android app using Kotlin and RxJava. Implemented geofencing, state management with Redux, and advanced UI animations.
- **Bergh Brandscheidigen:** Built a fire safety tracking Android app using Java. Implemented offline-first architecture with RealmDB and Retrofit syncing.
- **Rommtech Smart Bins:** Developed an iOS app using Swift for managing ultrasonic sensor-enabled smart dustbins. Used UIKit, MapKit, and Alamofire for UI and networking.
- **NNEK:** Created a backend feature for a financial platform using Symphony and PHP. Worked with Doctrine ORM, CMS module, cron jobs, and SwiftMailer for email notifications.

## TECHNICAL SKILLS

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- **Programming Languages:** Java, Kotlin, JavaScript, Python, Swift, PHP
- **Web & App Frameworks:** Android SDK, React Native, Next.js, Django
- **Tools & IDEs:** Android Studio, Xcode
- **Databases:** RealmDB, SQLite, MySQL, Redis
- **DevOps & Infrastructure:** Firebase, Docker, Git, CI/CD Pipelines