

Priyanka Mohanty

Lead Software Engineer - Mobile

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Senior Android Engineering Leader with 12+ years of experience in Android SDK, Kotlin, MVVM, Clean Architecture, and cross-platform mobile development. Expertise in fintech, healthcare, IoT, and blockchain-enabled applications, including secure payment systems and cryptocurrency integrations. Strong background in offline-first architecture, BLE device communication, API integration, AWS cloud environments, and CI/CD pipelines within Agile/Scrum teams. Proven track record of scaling mission-critical mobile platforms and leading high-performing engineering teams.

SKILLS

- **Android & Cross-Platform Development:** Android SDK, Kotlin, Java, Flutter (Dart), Kotlin Multiplatform (KMP), Gradle, Git
- **Architecture & System Design:** MVVM, Clean Architecture, Modularization, Offline-First & Sync-Resilient Systems, Dynamic UI Generation Frameworks
- **State Management:** StateFlow, LiveData, BLoC, Riverpod
- **Dependency Injection:** Koin, Dagger, Hilt
- **UI & Platform Capabilities:** XML, Jetpack Compose, Material Design, Accessibility-Compliant UI, Deep Links
- **Device, IoT & Hardware Integrations:** NFC, Bluetooth (Classic & BLE – GATT-based device communication, background services, real-time data streaming), Camera APIs, Barcode/QR Scanning, IoT Integrations
- **Media & Audio Systems:** Media3 Library, ExoPlayer, Text-to-Speech (TTS)
- **Backend & Integration:** API Integration, RESTful APIs, WebSockets, JSON Parsing, Secure Authentication (OAuth/JWT), Token-Based Flows
- **Firebase Ecosystem:** Authentication, Firestore, Analytics, Push Notifications, Dynamic Links
- **Data & Persistence:** Room, SQLite, ObjectBox, DataStore, Local Storage, Sync & Conflict Resolution Strategies
- **Performance, Monitoring & Quality Engineering:** Profiling, Memory & Rendering Optimization, JUnit, Mockito, Espresso, Sentry, Crash & Performance Monitoring
- **Cloud & CI/CD:** AWS, Jenkins, GitLab CI, Bitrise, Azure DevOps, Release Automation, Google Play Store Deployment, Play Console Management
- **Security & Compliance:** Secure Data Handling, Encryption Practices, Auditability, Safety-Critical Application Design
- **AI-Augmented Engineering:** GitHub Copilot, ChatGPT, Gemini, and Claude for architecture validation, refactoring, and migration acceleration.
- **Development Methodologies:** Agile/Scrum, Cross-Functional Collaboration, Technical Roadmapping

WORK EXPERIENCE

Camascope India Pvt. Ltd - Lead Software Engineer - Mobile

Jan 2023 - Present

- Led development of Camascope 2.0 eMAR, a mission-critical Android app for medication administration, improving medication processing efficiency and reducing operational errors.
- Architected an offline-first mobile solution integrated with the Care Portal, ensuring uninterrupted service and reliable sync.
- Implemented barcode-based medication verification and high-risk drug workflows aligned with clinical safety protocols.
- Built robust offline processing systems to maintain continuity across diverse operational environments.
- Currently leading Python backend API development and driving AWS cloud migration to enhance scalability and infrastructure reliability.

Virtusa Consulting Services Pvt. Ltd.- Team Lead - Mobile Engineering

Sep 2021 - Jan 2023

- Architected and delivered a scalable KDS application, establishing system design, project roadmaps, and risk controls.
- Resolved critical production issues while mentoring engineers to drive delivery excellence.

SpotOn- Software Engineer - Android

Mar 2021 - Sep 2021

- Designed secure cryptocurrency payment workflows with real-time transaction handling and payment history management, strengthening transaction accuracy and audit traceability.

Tokentech R&D India Pvt. Ltd. - Software Engineer - Android

Sep 2018 - May 2020

- Built secure fintech and cryptocurrency Android applications leveraging blockchain integration for transaction integrity and data security.
- Translated complex crypto workflows into intuitive mobile experiences, optimizing API performance and adhering to secure coding standards within agile delivery environments.

Invendis Technologies India Pvt. Ltd - Senior Software Engineer - Android

Jun 2015 - Sep 2018

- Developed telecom monitoring and automation apps with real-time data visualization for operational efficiency.
- Architected mission-critical mobile systems for high-demand environments, while mentoring engineers and contributing to long-term technical strategy.

Shiksha Infotech Pvt. Ltd - Android Developer

Dec 2014 - Jun 2015

- Built a kids'smartwatch mobile application enabling real-time GPS tracking, image/video monitoring, and web portal-based calling integration.

EDUCATION

- **Master of Computer Applications (MCA)**- Biju Patnaik University of Technology (BPUT), 2014
- **Bachelor of Computer Applications (BCA)**- Berhampur University, 2011