

PRIYANKA MOHANTY

Lead Mobile Engineer | Android (Kotlin,Flutter) | Cross-Platform & AI-Integrated Mobile Systems

Bangalore, India

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PROFILE

Senior Mobile Engineering Leader with **12+ years of experience designing, building, and scaling complex mobile platforms** across Android and cross-platform ecosystems. Demonstrated strength in **mobile architecture, offline-first systems, reusable component design, and large-scale production applications** operating in regulated and mission-critical domains.

Proven ability to **lead discovery and execution of multi-year mobile initiatives**, translate business strategy into sustainable technical solutions, and collaborate deeply with **backend, cloud, data, and AI-adjacent teams**. Trusted technical leader known for mentoring engineers, driving architectural standards, resolving high-severity production issues, and delivering secure, high-performance mobile experiences that scale with user and business growth.

CORE EXPERTISE

- **Mobile Platforms:** Android (Kotlin, Java), Flutter (Dart)
- **Mobile Architecture:** MVVM, Clean Architecture, Modularization, Offline-First Design, Reusable Component Systems
- **User Experience & Performance:** Jetpack Compose, Material Design, Accessibility-Aware UI, Performance Optimization
- **Backend & Platform Integration:** RESTful APIs, GraphQL, JSON, Secure Auth Flows, WebSockets
- **Data & State Management:** Room, SQLite, Firebase, SharedPreferences, Sync & Conflict Resolution
- **Intelligent & Context-Aware Systems:** Conversational UI foundations, rule-driven personalization, safety-critical workflows (via backend & ML collaboration)

- **Cloud & DevOps:** AWS Migration, CI/CD (Jenkins, GitLab CI, Bitrise, Azure DevOps), Release Automation
 - **Quality & Reliability:** Unit, Integration & UI Testing (Mockito, Espresso), Crash & Performance Monitoring, Root Cause Analysis
 - **Security & Compliance:** Secure data handling, auditability, healthcare-grade reliability patterns
 - **Leadership & Delivery:** Technical discovery, system design reviews, mentoring, Agile/Scrum execution, stakeholder communication
 - **AI-Assisted Engineering:** Leveraging modern AI-assisted development tools (GitHub Copilot, ChatGPT, Gemini, Claude Sonnet) within **VS Code and Android Studio** to accelerate development, improve code quality, validate architectural decisions, and enhance developer productivity during large-scale migration efforts
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PROFESSIONAL EXPERIENCE

Camascope India Pvt. Ltd. | Jan 2023 – Present

Lead Software Engineer – Mobile

- Lead development of **Camascope 2.0 eMAR**, a mission-critical Android application enabling care staff to **safely and efficiently administer medications at the point of care**.
- Architected a **reliable, offline-first mobile solution** tightly integrated with the Camascope Care Portal, providing **real-time oversight, compliance tracking, and audit readiness** for care providers.
- Implemented **barcode-based medication verification** to ensure the right resident, right medication, right dose, and right time, significantly reducing administration errors.
- Designed **advanced medication filtering workflows** to prioritize high-risk and complex medications such as controlled drugs and warfarin during medication rounds.
- Integrated **linked vitals checks** (e.g., validating blood pressure prior to digoxin administration) to support clinical safety protocols.
- Built **enhanced body-mapping features** for accurate tracking of topical applications and rotation schedules, preventing overapplication and improving care quality.
- Delivered robust **offline mode support**, allowing uninterrupted medication administration with automatic background sync upon reconnection.
- Actively contributing to the platform's future roadmap, laying the **foundation for intelligent, data-driven, and AI-assisted care workflows**.

- Currently leading **backend API development using Python**, supporting new platform capabilities and integrations.
- Driving **cloud migration initiatives to AWS**, improving scalability, reliability, and long-term maintainability of the system. Currently leading **API migration and modernization using Python-based services**, focusing on scalability, security, and backward compatibility.
- Leveraging modern AI-assisted development tools (**GitHub Copilot, ChatGPT, Gemini, Claude Sonnet**) within VS Code to accelerate development, improve code quality, validate architectural decisions, and improve developer productivity during large-scale migration efforts.

Virtusa Consulting Services Pvt. Ltd. | Sep 2021 – Jan 2023

Team Lead – Mobile Engineering

- Led medium- to large-scale **cross-functional mobile projects**, coordinating with multiple stakeholders.
- Defined **project architecture, timelines, and risk mitigation plans** for Android applications.
- Guided teams through **complex production issues**, ensuring stability and on-time delivery.
- Played a key role in **technical decision-making, mentoring, and performance management** of engineers.

SpotOn (San Francisco, USA) | Mar 2021 – Sep 2021

Software Engineer – Android

- Built and enhanced **high-performance Android modules** for customer-facing products.
- Collaborated with global teams to deliver **scalable, real-time mobile experiences**.
- Improved application reliability and UX through focused refactoring and performance tuning.

Tokentech R&D India Pvt. Ltd. | Sep 2018 – May 2020

Software Engineer – Mobile & Blockchain

- Designed and developed **blockchain-integrated Android applications**, including secure wallet functionality.
- Worked closely with backend and domain experts to translate complex concepts into intuitive mobile flows.
- Ensured secure data handling and seamless API communication.

Invendis Technologies India Pvt. Ltd. | Jun 2015 – Sep 2018

Senior Software Engineer – Android

- Led development of **telecom monitoring and automation applications** with real-time data visualization.
- Architected scalable mobile solutions for mission-critical systems.
- Mentored junior developers and contributed to long-term technical strategy.

Shiksha Infotech Pvt.Ltd | Dec 2014 – Jun 2015

Android Developer

- Optimized Android applications for enterprise clients, improving app functionality and user experience.

N.I.S.T Technology Consulting Services Pvt.Ltd | Nov 2013 – Apr 2014

Android Intern

- Gained hands-on experience in Android development while contributing to mobile application projects.

PROJECTS

Camascope 2.0 – eMAR (Electronic Medication Administration Record)

Current Project | Healthcare Mobile Platform

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Shift4 – Kitchen Display System (KDS)

- Led architecture and development of an enterprise-grade **real-time order management system** for restaurants.
- Designed modular Kotlin-based architecture, ensuring scalability and reliability.
- Implemented testing strategies and performance optimizations for production stability.

TokenVault – Crypto & Tokenized Assets Platform

- Built Android architecture from the ground up for a **secure, transaction-heavy mobile platform**.
- Integrated blockchain workflows and collaborated closely with backend teams on security and performance.

MToc – Telecom Remote Monitoring

- Delivered a **real-time monitoring solution** for telecom infrastructure.
- Led UI design, API integration, and performance optimization across multiple device types.