AMIT

Android Engineer | Senior Mobile Developer | Kotlin, Jetpack Compose & Android SDK
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PROFESSIONAL SUMMARY

Android engineer with 4.5+ years of experience building and maintaining production apps in Kotlin and Java on the Android SDK. Has delivered apps in FinTech, logistics, and enterprise domains, including four banking apps with more than 100K downloads each. Works with MVI and Clean Architecture, offline-first data synchronization, secure payments (NFC, Android KeyStore), and Jetpack Compose. Has mentored two junior engineers and set up code review, linting, and CI standards to improve code quality. Experienced in sharing business logic across platforms with Compose Multiplatform.

CORE TECHNICAL SKILLS

- **Languages and Platform:** Kotlin, Java, Android SDK, OOP, SOLID
- **Architecture:** MVI, MVVM, Clean Architecture, Multi-Module Architecture, Unidirectional Data Flow (UDF), Offline-First
- **UI and Jetpack:** Jetpack Compose, Material Design 3, Navigation Compose, Paging 3, Room, DataStore, WorkManager, Lifecycle, ViewModel, Deep Links, Notifications
- **Concurrency and Networking:** Coroutines, Flow, StateFlow, SharedFlow, Retrofit, Ktor, REST APIs, JSON Parsing, Real-Time Data Synchronization, WebRTC
- **Cross-Platform:** Compose Multiplatform, Kotlin Multiplatform
- **Testing and Quality:** JUnit 4/5, Espresso, Mockito, Compose UI Testing, Turbine, TDD,
- **Security, Payments and Hardware:** NFC (Thales SDK, HCE), Android KeyStore, Camera2 API, USB Host API, Google Maps SDK
- **Build and Release:** Gradle Kotlin DSL, Version Catalogs, GitHub Actions (CI/CD), Android App Bundles, Google Play Console, Firebase Crashlytics, ProGuard/R8, Git
- **Practices:** Agile/Scrum, code review, mentoring

PROFESSIONAL EXPERIENCE

Android Developer | Altruist Technologies | Panchkula, India | Apr 2025 – Present

- Architected a multi-module Android app on MVI in Kotlin for a UAE government platform, including hardware verification API integrations. Feature release velocity increased by 25%.
- Built an offline-first data layer with Ktor, caching, and Room for real-time data synchronization. Application stability was 97.3% in low-connectivity field environments.
- Implemented Jetpack Paging 3 for large datasets, resolving out-of-memory crashes on mid-range devices and reducing resource usage.
- Set up a GitHub Actions CI/CD pipeline that runs automated linting, unit tests, and build gates on every pull request.
- Delivered billing, meter reading, payment processing, attendance, and site visit modules for the Emarat LPG Services, Gulf Craft, and IBL mobile apps.
- Adopted Compose Multiplatform (CMP) to share 60% of business logic across platforms while keeping core Android SDK integrations.

Android Developer | Brucode Technologies | Mohali, India | Aug 2023 – Apr 2025

- Built, launched, and iterated on the FinTech apps Capital Bank Mobile and The Blink, each with 100K+ downloads on Google Play.
- Implemented NFC Tap-to-Pay with the Thales SDK, digital card issuance, and KeyStore-backed hardware security.
- Integrated end-to-end encrypted WebRTC audio/video for customer support, using AudioTrack/AudioRecord, AudioManager/AudioService, AudioFocus, and audio routing to handle real-time data transfer and peer-to-peer synchronization.
- Refactored the user onboarding flows in Jetpack Compose with state hoisting and MVI, which increased registration completion by 20%.
- Enhanced onboarding modules in the live banking apps JKBMobile and AJIB Mobile (100K+ downloads each).
- Mentored two junior engineers and established code-review standards enforced through linting and unit tests, which reduced production defect rates by 18%.

Software Developer | Bridge Select | Remote | Jan 2023 – May 2023

- Stabilized a legacy Android codebase by resolving 14 critical UI regressions in three weeks and improving REST API error handling and data transfer, restoring daily active user baselines.

Android Developer | Promatics Technologies | Ludhiana, India | Sep 2022 – Dec 2022

- Built and launched P-Lex, a legal subscription app with Google Play in-app purchases, server-side REST API receipt validation, and subscription lifecycle management.
- Designed a reusable Kotlin UI component library across 5+ modules, increasing screen development velocity by 30%.

SELECTED PROJECTS

Dependo Rider | Compose Multiplatform | Google Maps | **Google Play**

- Rebuilt a production logistics app, sharing 70% of core business logic. Implemented MVI state management, offline-first real-time GPS synchronization, and a custom CameraK module.

Abuzz Admin | Compose Multiplatform | **Google Play**

- Built from scratch as a cross-platform app with a modular Ktor networking stack, a REST API layer, and shared domain architecture.

Emarat LPG | Android | LPG Services & Payments | **Google Play**

- Contributed to the Emarat LPG mobile application, enabling registered customers in supported UAE service areas to manage their LPG consumption and account details.
- Worked on payment-related features supporting cash, online, and card payments on delivery, along with online credit and debit card payments.

Capital Bank | Android | FinTech | **Google Play**

- Developed contactless NFC Tap-to-Pay, card activation lifecycle management, and secure account fund transfers.

Blink | Android | Digital Banking | **Google Play**

- Implemented real-time WebRTC audio/video and a paperless onboarding flow that completes in under three minutes.

PUBLICATIONS & OPEN SOURCE

Shared Context Protocol | **GitHub** | **Medium Article**

- **Architected a Context-Sharing Pipeline:** Developed a protocol enabling distinct AI tools to retain memory and seamlessly share execution context, eliminating data loss across multi-agent workflows.
- **State Management & Persistence:** Designed a robust mechanism to capture and persist the state of tool outputs, transforming them into reliable inputs for subsequent operations.
- **Technical Documentation:** Authored a comprehensive architectural breakdown published on Medium, detailing the integration patterns and data flow strategies for AI toolchains.

Articles on Medium (medium.com/@amit.work35)

- Clean Architecture for Jetpack Compose: Scaling Beyond Simple Screens
- Slot Pattern: The Slicing Compose UI
- MVI is the Perfect Recipe for Compose
- Jetpack Compose Side Effects The Right Way
- The Green Flag of Compose State Hoisting
- Migrating Android to Compose Multiplatform

EDUCATION

- B.Tech, Computer Science & Engineering | IK Gujral Punjab Technical University | 2018 – 2022

CERTIFICATIONS

- Jetpack Compose for Android Developers | Udemy | Feb 2024