

Biniam Berhane

Senior Android Engineer

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PROFESSIONAL SUMMARY

Senior Android Engineer with 8+ years of experience architecting and shipping production-grade Android applications across healthcare, IoT, fintech, and telecommunications. Drove a **35% reduction in app startup time** and achieved **85%+ unit test coverage** on critical modules — results that reflect a disciplined approach to performance, code quality, and scalable architecture. Deep expertise in Kotlin, MVVM / Clean Architecture, Jetpack Compose, and reactive programming with Coroutines and RxJava, with a consistent record of delivering end-to-end feature ownership, mentoring engineers, and partnering cross-functionally to build high-impact, user-centric products at scale.

TECHNICAL SKILLS

Languages	Kotlin (primary), Java
UI / Compose	Jetpack Compose, Material Design 3, XML Layouts, Custom Views, Canvas API
Architecture	MVVM, MVI, Clean Architecture, Multi-Module, Repository & UseCase patterns
Jetpack	ViewModel, LiveData, Room, Navigation, WorkManager, DataStore, Paging 3
Async & Reactive	Kotlin Coroutines, Flow, StateFlow, SharedFlow, RxJava 2/3
Networking	Retrofit 2, OkHttp, GraphQL (Apollo), REST, gRPC, WebSocket
DI & Build	Hilt, Dagger 2, Gradle (Kotlin DSL), Version Catalogs, Build Variants
Testing	JUnit 4/5, Mockito, MockK, Turbine (Flow), Espresso, UI Automator
Tools & Ops	Android Studio, Git, GitHub Actions, Firebase (Crashlytics, Analytics, Remote Config), Jira, Figma
Hardware / Other	Bluetooth / BLE, NFC, SQLite, Play Console

WORK EXPERIENCE

Senior Android Engineer

2022 – Present

Insulet Corporation

- Led end-to-end feature development for the **OmniPod** insulin delivery app, driving a **20% increase in user engagement** through targeted UX enhancements and iterative performance improvements.
- Architected Bluetooth Low Energy (BLE) communication flows between the Android app and the OmniPod medical device, partnering with firmware and cloud teams to ensure reliable, low-latency data exchange.
- Introduced RxJava reactive patterns to manage concurrent data streams, measurably reducing network latency and improving UI responsiveness across core patient-facing flows.
- Championed code quality through rigorous code reviews, SOLID-principle enforcement, and systematic tech-debt reduction — raising maintainability standards across critical production modules.
- Translated Figma prototypes into pixel-perfect, accessible interfaces aligned with Material Design 3, collaborating directly with UX/UI designers.

Senior Android Engineer

2019 – 2022

Kaiser Permanente

- Designed and shipped a comprehensive health-history calendar feature, enabling millions of patients to track appointments, medications, and records in a single unified view.
- Implemented Single Sign-On (SSO) across multiple Kaiser digital platforms, streamlining authentication for millions of members while strengthening security posture.
- Integrated HIPAA-compliant RESTful APIs with backend engineers, ensuring real-time synchronization of sensitive medical data with zero reported data incidents.
- Established unit-testing standards with JUnit and Mockito, achieving **85%+ coverage** on core modules and significantly reducing production bug escape rates.
- Mentored junior Android engineers through structured code reviews and pairing sessions, raising team-wide adherence to clean architecture best practices.

Android Engineer

2017 – 2019

Acuvera

- Built core modules for a real estate application — property search, multi-criteria filtering, and saved listings — actively used by thousands of buyers at launch.
- Reduced app startup time by **35%** through lazy loading, efficient RecyclerView diffing, and LRU image-caching strategies, directly improving Day-1 retention.
- Ran structured user-testing sessions and iterated on UI flows — improving App Store ratings from **3.6 to 4.3 stars**.
- Partnered with product managers to scope, estimate, and consistently deliver high-priority features within two-week Agile sprint cycles.

Android Engineer

2015 – 2017

Eritrean Telecommunication

- Developed a pre-paid card reader application using image processing and OCR, significantly improving scanning accuracy and reducing processing time for field technicians.
- Built and maintained core app modules supporting telecom workflows, ensuring stability and performance across a range of low-spec Android devices.

EDUCATION

B.S., Computer Engineering

Eritrean Institute of Technology · Asmara, Eritrea