

HUSSNAIN MEHDI

Senior Android Engineer • Kotlin • Jetpack Compose • Clean Architecture

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PROFESSIONAL SUMMARY

Senior Android Engineer with 3.5 years of experience delivering 20+ production-grade Android applications across navigation, media, and utility domains — collectively surpassing 30M+ Play Store installs. Consistent track record of maintaining 98–99.5% crash-free rates, reducing ANR (Application Not Responding) rates by ~35%, and accelerating feature delivery by up to 40% through AI-assisted workflows and modular Clean Architecture. Experienced in high-volume consumer app development, distributed Agile teams, and CI/CD-driven Play Store release cycles.

CORE SKILLS & TECHNOLOGIES

Languages & UI: Kotlin, Java, Android SDK, Android Jetpack, Jetpack Compose, XML / View System, Material Design, Material 3

Architecture & DI: MVVM, Clean Architecture, Multi-Module Architecture, Repository Pattern, SOLID Principles, Coroutines, Flow

Networking & Persistence: Retrofit, Ktor, RESTful APIs, Room Database, DataStore, WorkManager, Foreground Services, Navigation Component, Compose Navigation, Dependency Injection, Hilt, Koin

Performance & Testing: Paging 3, ProGuard, R8, Memory Profiler, Performance Profiling, ANR (Application Not Responding) Reduction, JUnit, Mockito, Espresso, UI Testing, Unit Testing

Platform & Firebase: Google Maps SDK, Location APIs, Firebase Analytics, Crashlytics, FCM, Remote Config, AdMob, Meta Ads, SDK Development

DevOps & Process: Git, GitHub, Gradle, GitHub Actions, Google Play Console, Play Store Deployment, Continuous Integration, Continuous Deployment, CI/CD, Agile, Scrum, Code Reviews, Technical Mentoring

WORK EXPERIENCE

Senior Android Engineer | [Top Edge Technologies](#) • Multan, Pakistan

Dec 2022 – Present (3.5+ years)

- Architected and shipped 20+ production Android apps in Kotlin and Jetpack Compose, collectively exceeding 30M+ Play Store installs across navigation, media, utility, and productivity categories.
- Maintained 98–99.5% crash-free user rate across all live apps by implementing proactive Crashlytics monitoring and resolving root-cause failures within 48 hours of detection.
- Reduced company-wide ANR (Application Not Responding) rates by ~35% by refactoring blocking I/O off the main thread using Coroutines and restructuring WorkManager task queues.
- Accelerated feature delivery by up to 40% by integrating AI-assisted coding workflows (GitHub Copilot, AI code review tools) alongside modular Clean Architecture patterns, cutting average feature cycle from 10 days to 6 days per sprint.
- Implemented MVVM + Clean Architecture + Multi-Module structure across flagship apps, improving build times by 25% and significantly reducing inter-team merge conflicts.
- Integrated RESTful APIs via Retrofit and Ktor with coroutine-based async handling and structured error/retry logic, reducing API-related error rates by 30%.
- Adopted ProGuard/R8 and Paging 3, reducing average APK size by 20% and improving list-scroll performance by 40% on low-memory devices.
- Delivered 3+ production features per sprint consistently over 6 consecutive quarters while maintaining 98%+ crash-free stability.
- Set up and maintained Bitrise CI/CD and GitHub Actions pipelines, cutting Play Store release turnaround from 2 days to under 4 hours.
- Integrated Firebase Analytics, Crashlytics, FCM, Remote Config, and AdMob/Meta Ads SDKs across multiple monetized consumer apps.
- Conducted regular code reviews, established internal coding standards, and mentored junior developers on Compose patterns and architecture best practices.

Remote Android Developer | Ikame Global • Hanoi, Vietnam (Remote, Concurrent Contract)

Jun 2024 – Sep 2024

- Developed and maintained Android features for international client-facing applications in a fully remote, distributed team environment.
- Integrated Ads SDKs and monetization features, contributing to measurable revenue uplift across client apps.
- Diagnosed and resolved production crashes and performance regressions, improving app stability metrics within the first two sprints.
- Collaborated across time zones in Agile sprints, consistently meeting delivery deadlines while maintaining high code quality standards.

FEATURED PROJECTS (30M+ COLLECTIVE INSTALLS)

Video Downloader – VDownloader 10M+ Installs ► [Play Store](#)

Stack: Kotlin · MVVM · WorkManager · Room · Coroutines · REST APIs

- Engineered background download engine using WorkManager + Room, achieving zero data-loss on interrupted downloads and 99%+ task-completion rate across 10M+ users.
- Optimized download throughput and memory footprint for low-RAM devices, reducing OOM crashes by 45% vs. initial release.

Easy Rout Map: Navigation Path 10M+ Installs ► [Play Store](#)

Stack: Kotlin · Jetpack Compose · Google Maps SDK · MVVM · Coroutines · Directions API

- Built real-time location tracking, polyline route rendering, and voice-navigation-ready direction flows using Google Maps SDK and Directions API.
- Optimized location update frequency to reduce battery consumption by ~30% without sacrificing navigation accuracy.

Video Saver – Save Videos & Story 5M+ Installs ► [Play Store](#)

Stack: Kotlin · Android SDK · Room · Storage APIs · MVVM

- Built media-saving workflow with full scoped-storage compliance across Android 10–13, eliminating file-access crashes that previously affected 12% of users.
- Sustained 98.5%+ crash-free rate at 5M+ installs through proactive Crashlytics monitoring and rapid patch cycles.

GPS Camera – Photo Location 1M+ Installs ► [Play Store](#)

Stack: Kotlin · Android SDK · Camera APIs · Location APIs · Media APIs

- Built geo-tagged media capture with timestamp and coordinate overlays, synchronizing camera and GPS streams within <200 ms latency.
- Handled device-capability variance across 50+ Android OEM configurations; achieved 99%+ crash-free rate at 1M+ install scale.

Live Earth Map – Satellite View 1M+ Installs ► [Play Store](#)

Stack: Kotlin · Google Maps SDK · MVVM · Coroutines · Location APIs

- Shipped and maintained satellite-view map explorer; sustained 98%+ crash-free rate under heavy map-tile load at 1M+ installs.
- Delivered Compose-led architecture with repository-driven location and map state, enabling rapid feature iteration across quarterly releases.

ADDITIONAL PLAY STORE APPS

- **Additional shipped apps:** [Live Satellite View](#), [Screen Cast / Mirror](#), [QR & Barcode Scanner](#), [Voice Recorder](#), [Status Saver](#), [Calling Themes](#), [Internet Speed Meter](#), [Charging Animation](#), [Islamic Azkar & Compass](#), [Plant Identifier](#), [Vet. Pharmapedia](#), [Notepad App](#), [Translator App](#), [PDF Reader](#), [Screen Recorder](#) — all live on the Play Store.

OPEN SOURCE / GITHUB CONTRIBUTIONS

Android Libraries

VideoDownloaderLib — [\[GitHub\]](#)

A reusable Android library for downloading media from direct downloadable URLs with built-in pause & resume support. Handles download-state persistence, background execution via WorkManager, progress tracking, and failure recovery — enabling any app to integrate production-grade download functionality with minimal setup.

Stack: Kotlin · WorkManager · Room · Coroutines · OkHttp

test-prsr (Media Link Parser) — [\[GitHub\]](#)

A lightweight Android library for parsing and extracting direct downloadable media URLs from web page links.

Handles HTML parsing, redirect resolution, and media-type detection — designed to be used upstream of download managers to resolve streamable/downloadable links before initiating transfer.

Stack: Kotlin · OkHttp / Ktor · HTML Parsing · Coroutines

Personal Projects

AI Gallery — Natural-language photo search using Google ML Kit; Compose UI with local media indexing and flexible matching modes. [\[GitHub\]](#)

Live Tracker — Route visualisation with Ktor-driven Directions API, polyline rendering, and Compose-first map state management. [\[GitHub\]](#)

Fast Localizer — Developer tooling for multi-language string management with batch import/export — reduces localization overhead by 60%. [\[GitHub\]](#)

EDUCATION

Bachelor of Science in Information Technology • Emerson University, Multan • 2017 – 2021

Relevant coursework: Mobile Computing, Software Engineering, Data Structures & Algorithms, Object-Oriented Programming, Database Systems.

HONORS & AWARDS

- Rising Star Award — Top Edge Technologies, 2023: Recognized for exceptional delivery quality, architectural contributions, and rapid professional growth.
- Best Performer of the Quarter — Top Edge Technologies, 2024: Awarded for consistently delivering high-impact features on time, reducing crash rates, and mentoring team members.