

Muhammad Mohsin

Android Engineer

📍 Chemnitz, Germany — 📞 +49 163 6281069 — 📩 mohsinfifi@gmail.com
🔗 in/mohsin-software-engineer — 🐾 github.com/mohsinfifi

SUMMARY

Android Developer with 4 years of experience building scalable, high-performance mobile applications using **Kotlin, Java, Jetpack Compose, Coroutines, Flow**, and modern Android architecture patterns. Skilled in **Compose MultiPlatform, Jetpack Compose, Clean Architecture, MVVM, modularization, dependency injection (Koin/Hilt/Dagger)**, and performance optimization using **NDK/C++, OpenCV** where required. Experienced in integrating REST APIs, Google Play Services, Maps, Room DB, and Firebase tools including Crashlytics and Analytics. Strong focus on clean code, UI/UX quality, testing (JUnit, Espresso), and delivering stable releases through CI/CD. Passionate about modern Android development, code quality, and building user-centric mobile experiences.

TECHNICAL SKILLS

Languages: Kotlin (Primary), Java, C++, Python

Android Development: Jetpack Compose, XML UI, MVVM, Clean Architecture, Modularization, Material Design 3

Android Jetpack: LiveData, ViewModel, Navigation, DataStore, Room Database, WorkManager, Paging 3

Asynchronous: Coroutines, Flow, StateFlow, SharedFlow

Networking & APIs: Retrofit, OkHttp, RESTful APIs, JSON, WebSockets

Dependency Injection: Hilt, Dagger 2, Koin

Performance & Native: Android NDK, C++, JNI, Memory Optimization, OpenCV

Testing: JUnit, Espresso, Mockito, UI Testing, Instrumentation Tests

Firebase: Crashlytics, Analytics, FCM, Remote Config, Firebase Auth

Google APIs: Maps SDK, Location Services, Directions API, ML Kit

Tools: Android Studio, Git, GitHub, GitLab CI/CD, Gradle, Postman, Jira

Other Skills: Bluetooth, CameraX, Sensors, Background Services, App Optimization

EXPERIENCE

Android Developer (High-Performance Engineering)

Feb 2022 – Oct 2025

Lahore, Pakistan

Status Systems

Optimized performance-critical modules using **C++ (NDK)** and JNI, improving memory usage for 100K+ active users.

Reduced crash rates by 20% through thread-safe architecture using Kotlin Coroutines & Flow.

Introduced automated QA tools, improving overall code quality by 20%.

Integrated Stripe/PayPal with robust error-handling, increasing payment success rates by 35%.

Android Developer Intern

Apr 2021 – Jan 2022

Lahore, Pakistan

Softlinks

Converted Figma designs into reusable XML components, improving UI development speed by 10%.

Implemented RESTful API communication using Retrofit.

Collaborated in Agile teams for timely feature delivery.

IT System Administrator

Mar 2017 – Mar 2021

Lahore, Pakistan

Punjab Government

Ensured 99% uptime while managing IT infrastructure for 50+ users.

Reduced annual IT operational cost by 15% via systematic resource planning.

SELECTED ENGINEERING PROJECTS

AI-Powered Biometric Verification System (Liveness Detection)

Computer Vision, Edge AI

Integrated **OpenCV** and **FaceNet** with **TensorFlow Lite** for real-time on-device recognition.

Implemented geofencing algorithms for location-based security validation.

[Play Store Link](#)

High-Performance PDF Scanner (50M+ Downloads)

C++, OpenCV, Android NDK

Developed real-time edge detection and image enhancement pipeline using **C++ & OpenCV**.

Optimized memory allocation to prevent OOM crashes on low-end hardware.

[Play Store Link](#)

Rydelinx – Driver-Centric Ride-Sharing App

Kotlin, MVVM, Maps API

Developed a driver-first mobility platform using Clean Architecture + Coroutines.

Integrated Google Maps SDK + Directions API for optimized route computation.

[Play Store Link](#)

Automotive Service & Maintenance Platform ("Garage App")

MVVM, Android Architecture

Built a dual-module system enabling workshops and vehicle owners to manage maintenance workflows.

Designed scalable MVVM architecture with role-based access control.

EDUCATION

M.Sc. Automotive Software Engineering

Technische Universität Chemnitz

2026 – 2028 (Expected)

Germany

M.Sc. Information Technology

University of Education

2014 – 2016

Pakistan

CERTIFICATIONS

Google Agile Essentials – Coursera (2025)

Google Cybersecurity – Coursera (2025)

LANGUAGES

English: C1

German: A2 (Progressing)