

# NOORUL AKBAR

## Android Engineer (SDE-2)

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## Professional Summary

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**Android Engineer (SDE-2)** with 3+ years shipping scalable, consumer-grade Android apps in **Kotlin, Jetpack Compose, and Kotlin Multiplatform**. Proven track record of **99.9% crash-free sessions, 30% faster cold start, 70% APK size reduction**, and scaling to **50K+ users**. Strong in MVVM, Clean Architecture, Coroutines/Flow, REST APIs, and performance profiling — with hands-on experience delivering **Android + iOS from a single KMP codebase**.

## Core Skills

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**Languages & Frameworks:** Kotlin, Java, Jetpack Compose, Kotlin Multiplatform (KMP), Android SDK, Coroutines, Flow, StateFlow, SharedFlow

**Architecture & Design Patterns:** MVVM, Clean Architecture, Repository Pattern, SOLID Principles, Modularization, Dependency Injection, MVI, Offline-First Architecture

**Libraries & Technologies:** Retrofit, OkHttp, Room, DataStore, WorkManager, Hilt, Firebase (Firestore, FCM, Analytics, Crashlytics), Paging 3, Navigation Component

**Networking & Real-Time Communication:** REST APIs, WebSockets, MQTT, Push Notifications, Background Services, API Integration, OAuth Authentication

**Hardware & IoT Integration:** Bluetooth (BLE), Serial Communication, Hardware-to-Android Communication, Fitness Device Integration, Sensor Data Processing, Embedded Device Connectivity

**AI & Mobile Intelligence:** Generative AI Integration, Google Gemini API, OpenAI API, Prompt Engineering, OCR, ML Kit, AI Assistants, Speech-to-Text, Text-to-Speech

**Performance & Quality:** R8/ProGuard, Baseline Profiles, Memory Optimization, ANR Prevention, Performance Profiling, Crash Analysis, Unit Testing (JUnit), UI Testing (Espresso)

**Tools & Platforms:** Android Studio, Git, GitHub, GitHub Actions, Gradle, Play Console, Firebase Console, Postman, Jira, Figma

**AI - Model Skills:** Copilot agent, claude AI - Opus 4.8, Sonnet 4.6 etc, Chatgpt for Prompt optimizing, Gemini For Figma skeleton layout

**Development Practices:** Agile/Scrum, CI/CD, Code Reviews, Technical Documentation, Cross-Functional Collaboration, Release Management

## Work Experience

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**Android Engineer (SDE-2)**, Sports Tech GmbH – Bengaluru February 2025 – Present

- Built and scaled **Kotlin + Jetpack Compose** apps (MVVM, Clean Architecture) for **50K+ users** on flagship connected-fitness devices – treadmills, bikes & rowers.
- Developed **interactive workout experiences** with live device telemetry, real-time performance metrics, and **Bluetooth/BLE device sync** over REST APIs and streaming pipelines.
- Engineered **adaptive training modules** (guided sessions, video coaching, progress tracking) with smooth Compose UI and steady **60fps** rendering.
- Cut **cold start 30%, APK size 70%**, and **memory usage 40%** via profiling, Baseline Profiles & R8 tuning; sustained **99.9% crash-free sessions**.
- Built **subscription & paywall flows** with secure in-app billing, contributing a **30% subscription revenue lift**.
- Drove **Compose migration** of legacy XML screens, improving recomposition performance and cutting screen load times.
- Integrated **Firebase (FCM, Firestore, Analytics, Crashlytics)** for push, real-time data & crash monitoring; set up **CI/CD via GitHub Actions** for automated builds.

- Shipped in **3-week Agile (Scrum) cycles** with product, design, QA & backend; mentored junior engineers on Compose & Clean Architecture.

**Android Developer**, Mallow Technologies Pvt. Ltd. – Coimbatore

July 2022 – January 2025

- Built **TRYGG**, a real-time safety & incident-reporting app (**Kotlin, Jetpack Compose, MapBox**) with **GPS location tracking** and reliable background execution under Doze, App Standby & OEM battery limits.
- Engineered a **Panic Mode** emergency-alert flow with priority notifications and live **map-based locating** of field users via GPS coordinates and route plotting on MapBox.
- Implemented **real-time secure messaging** for field users and managers, plus user-controlled, privacy-first location sharing.
- Led **Java-to-Kotlin migration** to MVVM + **Clean Architecture**; integrated **Retrofit, Room, Coroutines, Flow** for offline-first sync.
- Optimized **RecyclerView, memory & background workers** and delivered features in **3-week Agile cycles** with iOS, backend & design teams.

## Education

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**Bachelor of Computer Applications (BCA)**, KG College of Arts and Science – Coimbatore

July 2019 – May 2022

**Relevant Coursework:** Data Structures & Algorithms, OOP, DBMS, Operating Systems, Mobile Application Development, Software Engineering.

## Projects

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**VIKA — Smart Billing & Business Management System**

Freelance Project

- Architected a **full invoice lifecycle engine** (Enquiry → Quotation → Proforma → Sales Order → Tax Invoice) in **Kotlin, Compose, MVVM & Clean Architecture**.
- Built a **payment-tracking ledger** handling partial payments, pending-balance computation & full transaction history.
- Engineered **multi-layout PDF generators** for distinct business documents, with **UPI QR payments** and **OCR bill scanning**.
- Integrated **AI assistant, cloud sync & analytics dashboards** into a single offline-capable platform.

**UniWatt Elektrik — Cross-Platform Field Workforce SaaS**

Independent Product · Live

- Solo-architected a **production SaaS** for industrial electrical contractors in **Kotlin Multiplatform** – Android + iOS from one codebase (**70% code reuse**) on **Compose UI & Firebase**.
- Designed a **tenant-isolated Firestore architecture** (adminId ownership rules, privilege gating, Cloudinary validation) for true **multi-tenant deployment**.
- Built a sub-second **real-time admin dashboard** – live GPS attendance, multi-assignee task lifecycle, anomaly-flagged KPI trends & a unified four-stream activity feed.
- Shipped advanced field workflows: **voice notes, Canvas photo annotation, e-signature signoff & one-tap PDF job cards**, plus a custom **osmdroid** multi-tile map.
- Tuned Compose recomposition via **Animatable + derivedStateOf** for steady **60fps** across 9 screens.

## Case Studies

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**Sports Tech GmbH (R&D):** Bridged fitness-hardware firmware to Android over **BLE/serial** with a JNI/NDK streaming layer, authored **ProGuard/R8 keep rules** for native bindings (**70% APK cut**), and migrated native libs to **16KB page-size** support ahead of the Play mandate.

**UniWatt Elektrik (Solo SaaS):** Shipped a **multi-tenant field-workforce SaaS** for electrical contractors – **KMP** Android + iOS from one codebase (**70% reuse**), sub-second **Firestore** dashboard with live GPS attendance, e-signature & PDF job cards, at steady **60fps**.