

AHSAN ISLAM

Senior Android Engineer | Kotlin · Jetpack Compose · On-device Voice ML · KMP

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PROFESSIONAL SUMMARY

Senior Android engineer, 9+ years in Kotlin — 800K+ Play installs across white-label commerce, payments, BLE, health sync, and on-device voice ML. At Cappella (MIT-founded) shipped cry classification on-device (mic → inference → parent alerts). Lead Android on COFE's white-label platform (12+ brands, 40+ modules, dual payment gateways), Abu Dhabi remote since 2023. Top Rated Plus on Upwork (100% JSS, 56 contracts, 2,203 hrs). Open to senior/lead Android roles, remote EU/GCC.

CORE SKILLS

Languages & mobile: Kotlin, Java, Jetpack Compose, Coroutines, Flow, MVVM, MVI, Clean Architecture

On-device ML & devices: Voice ML, On-device cry detection, BLE, OTA, Health Connect, Google Fit, Amazon Rekognition, OCR

Cross-platform: Kotlin Multiplatform, Compose Multiplatform, Android, iOS, Wasm

Payments: Tap Payments, Checkout.com, Google Pay, Play Billing, KNET, mada, STC Pay, Tabby BNPL, JazzCash, Easypaisa

Data & backend: Apollo GraphQL, Retrofit, OkHttp, SQLDelight, Room, Firebase, Supabase

Build & quality: Gradle KTS, R8, GitHub Actions, Bitrise, Jenkins, JUnit, MockK, Detekt

PROFESSIONAL EXPERIENCE

Senior Android Developer

Sep 2023 – Present

COFE App, Abu Dhabi, UAE (remote)

- White-label Kotlin/Compose platform for 12+ F&B brands (COFE, Barns, Caribou, Kyan, Pret) via per-brand vendor configurators; Barns shipped at 100,000+ Play installs (menu, loyalty, payments, pickup/delivery).
- Own payments: Tap GoSell and Checkout.com Frames behind one PaymentProvider, plus Google Pay, KNET, mada, STC Pay, Tabby BNPL, wallets and gift cards.
- 40+ Gradle modules — Clean Architecture, MVVM/MVI, Koin, Apollo GraphQL, SQLDelight, Coroutines; analytics SDKs behind an event-parser seam; Jenkins/Bitrise, R8, Crashlytics.

Senior Android Developer (contract)

Jun 2024 – Oct 2024

Cappella, Cambridge, MA (remote)

- On-device voice ML / cry classification (Kotlin + Java ML libs): mic capture → local inference → parent notifications (hunger, tiredness, discomfort) — no cloud round-trip for classification.
- Hired by founder Apolline Deroche (MIT Sloan) to ship Cappella (com.cappella.app): cry detection, two-phone monitor, feeding/sleep/diaper tracking, AI soothing sounds; Play launch July 2024.
- Cleared launch blockers (auth, profile, rotation); named on founder's Android launch post. Product shut down Nov 2024 — case study: ahsanislam.com/work/cappella-android-cry-detection.html.

Senior Android Developer

Feb 2021 – Sep 2023

Ozoned Digital, Lahore, Pakistan

- Five payment gateways (JazzCash, Easypaisa, UBL, Meezan, Alfalah) — +50% transaction success; server-driven UI cut load times ~30% without Play releases.
- Shipped Insurance Bazaar, Jubilee i-Insure, Agent Hub and Adamjee Field App; Jubilee Active (100k+ installs) with Health Connect, Google Fit, Samsung Health, Garmin.
- AWS Rekognition vehicle-damage AI (+80% accuracy); 2nd of 25 in AWS/Epiphany AI/ML Startup Reactor; CNIC/licence OCR; stack modernised to Kotlin, Compose, Hilt.

Senior Android Developer

Sep 2017 – Feb 2021

Xeon Technologies, Lahore, Pakistan

- Improved BLE tyre-pressure sensor accuracy by 25% and shipped OTA firmware upgrades from the Android app (iXchange UP headset companion).
- Built Firebase real-time chat with image, video, audio, file and location messages plus FCM notifications.
- Standardised MVVM architecture with Dagger, RxJava and Retrofit; managed AdMob mediation and Google Play policy compliance.

Android Developer

May 2017 – Jul 2017

RoboArt, Lahore, Pakistan

- Integrated Bluetooth IoT connectivity, Google Location Services, Firebase database and push notifications into the companion Android app.

SELECTED PROJECTS

- Cappella — on-device voice ML cry detection** (ahsanislam.com/work/cappella-android-cry-detection.html)
On-device Voice ML · Cry detection · Kotlin · Privacy
Baby-care Android app: on-device cry classification (mic → inference → parent alerts), two-phone monitor, tracking and AI soothing. Play Jul 2024 (MIT-founded); later shut down. Case study on site.
- COFE white-label + Barns** (Google Play: com.cofedistrict)
White-label · Compose · Payments · F&B
500k+ installs across COFE and 12+ brands; Barns (KSA) 100k+. Kotlin, Compose, MVI, Apollo GraphQL, SQLDelight, dual payment SDKs.
- Income Tax Calculator** (Google Play: com.xeontechnologies.incometaxcalculator)
Kotlin Multiplatform · Compose Multiplatform
KMP + Compose Multiplatform (Android, iOS, Wasm); 10-country tax packs, Supabase versioning, Play Billing via expect/actual.
- Jubilee Active** (Google Play: com.ozone.digital.jubileedigital)
Health Connect · Google Fit
Health tracker with Google Fit, Health Connect, Samsung Health, Garmin — 100k+ Play installs.
- Classmate Playdate** (Google Play: com.classmates.playdate)
Play Billing · Multi-module
~50 Gradle modules; Play Billing subscriptions, Socket.IO chat, OTP + SMS Retriever.
- Insurance Bazaar & Jubilee i-Insure** (Google Play: com.ozone.digital.insurancebazaar)
Insurtech · Payments
Insurtech marketplace plus paperless customer insurance (plans, payments, claims). i-Insure 10k+ installs.
- iXchange UP** (Google Play: com.xeontechnologies.ixchange)
BLE · OTA
BLE headset companion: auto-connect, battery telemetry, find-my-device, OTA firmware.

EDUCATION

BSc Computer Software Engineering — University of Central Punjab, Lahore, Pakistan, 2014 – 2017

CERTIFICATIONS & AWARDS

- AWS and Epiphany AI/ML Startup Reactor — 2nd of 25 companies nationally — AWS and Epiphany, 2022
Employee of the Month, September 2022 — Ozoned Digital, 2022-09
Employee of the Quarter, Q4 2022 — Ozoned Digital, 2022
Java Certificate — SoloLearn

LANGUAGES

English (professional), Urdu (native), Punjabi (native)