

Muhammed Hisham Mangalat

Senior Android Engineer · 10+ Years Experience · London, UK

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PROFESSIONAL SUMMARY

Experienced Senior Android Engineer with 10+ years delivering scalable, high-performance apps across banking, retail, and logistics. Expert in Kotlin, Jetpack Compose, modular Clean Architecture, CI/CD, and Kotlin Multiplatform. Passionate about mentoring, legacy modernization, and delivering stable, accessible mobile experiences in fast-paced agile teams.

PROFESSIONAL EXPERIENCE

Assistant Consultant — Tata Consultancy Services

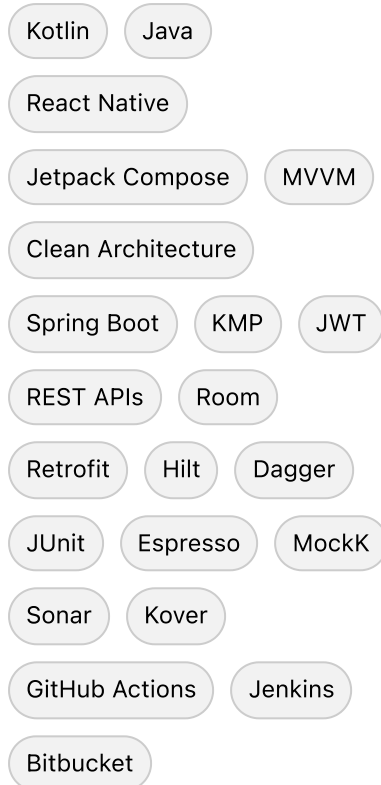
UK & India · Apr 2019 – Present

Client: Lloyds Banking Group, UK

Mar 2022 – Present

- Designed and implemented “Manage Payment Limit” from scratch using Jetpack Compose and modular Clean MVVM architecture.
- Built reusable OCP token caching repository to reduce redundant API calls and improve token management across journeys.
- Delivered fixes for deep-linking and Cheque Scanning SDK integration on Android 12+.
- Led cross-squad analysis of payment failures via Dynatrace, contributing to 60+ scenario test coverage.
- Proposed hybrid architecture to support monolith-to-GCP migration while maintaining legacy contracts.
- Created architectural documentation and onboarding guides for Compose adoption; mentored mid-level devs and shared Kotlin backend knowledge across teams.

SKILLS & TOOLS



ACHIEVEMENTS

- 40% crash reduction.
- 10M+ user reach.
- TCS Technical Excellence Award.
- Mentored 20+ devs.

RIGHT TO WORK & VISA

- Global Business Mobility visa (valid until 2027).
- Can switch to Skilled Worker Dependant.
- No sponsorship needed.

Client: Bpost, Belgium

May 2020 – Dec 2021

- Developed a kiosk-based app with MVVM, biometric authentication, and offline-first logic.
- Led secure authentication with OpenID Connect; ensured OWASP Top 10 compliance.
- Built the bpaid 2.0 app from scratch; improved UX/security and raised Play Store rating from 2.0 → 4.0.
- Automated deployment via Bitbucket CI/CD with rollouts through S3.
- Investigated and resolved Samsung-specific Retrofit caching issues using network logging and headers.

Client: Macy's, US

May 2019 – Feb 2020

- Implemented a high-performance barcode scanner with Google Vision API, replacing Scandit.
- Refactored legacy features from Java to Kotlin with MVVM and modularisation.
- Improved testing coverage and crash reporting; contributed to UI/UX modernization.

Other TCS Contributions

- Delivered Android projects for retail and logistics across UK & Europe.
- Led Kotlin backend API trainings; panelist for campus/graduate/lateral hiring.
- Mentored Android engineers; contributed to hiring documentation and onboarding.

KEY PROJECTS

- **Lloyds Banking Group's** — Lloyds, Halifax, Bank of Scotland & MBNA.
- **bpost Kiosk App** — Biometric auth, offline mode, secure MVVM architecture.
- **bpaid App (Bpost)** — 2.0 rewrite; Play Store rating 2.0 → 4.0.
- **Macy's App** — Barcode scanner using Mlkit; MVVM migration.
- **Bookri (Side Project)** — KMP group saving app + Spring Boot backend.
- **Maldives Cab App** — Ride-booking platform for drivers and customers.
- **XMPP Chat App** — Real-time messaging with Smack & read receipts.
- **Social Media App** — Likes/comments, media upload, engagement features.
- **Point of Sale App** — Retail POS with Bluetooth printer, inventory, billing.

Software Engineer — Triassic Solutions, India

Jul 2017 – Mar 2019

- Real-time chat app using Smack/XMPP with delivery/read receipts and offline sync.
- Order-tracking app with secure REST APIs, encryption, and push notifications.
- Cake ordering app with scheduling, address storage, and payment integration.

Android Developer — Fi-es Systems Limited, India

Aug 2016 – Jul 2017

- Android POS and KOT systems for restaurants/retail; printer SDK & Bluetooth billing.
- Google Maps SDK integrations for taxi tracking & dispatch modules.
- MQTT-based live updates for logistics tracking.

Software Engineer (Android) — Naga Info Solutions, India

Dec 2015 – Jul 2016

- Social media & messenger apps with performance focus; encrypted messaging & media uploads.
- Integrated XMPP (Smack) for real-time chat; improved offline sync & caching.

Design Engineer — AIV KnowTech, India

Jun 2014 – Nov 2015

- Android apps for retail & education (parent-teacher comms).
- POS systems with inventory, reports, scheduling; led full mobile SDLC.

