Salih Arya Gumilang

Android & Cross-Platform Engineer

Open to work · Remote or relocation

saliharya@gmail.com github.com/saliharya linkedin.com/in/aryagumilang Tangerang, Indonesia

SUMMARY

I build production Android apps for hospital, banking and government clients, from self-service kiosks and 24/7 digital signage to IoT and device management.

I focus on features that stay stable and consistent in the field, using Kotlin, Jetpack Compose and Compose Multiplatform (Android and iOS), with Clean Architecture, MVVM/MVI, REST APIs and unit testing.

EXPERIENCE

Android Developer · PT Sentuh Digital Teknologi

Nov 2025 - present

Build and maintain Android across several product lines (kiosk, SmartBoard, digital signage, banking kiosk, IoT) for hospital, banking and government clients, with code reviews and unit and instrumentation testing.

- **Hospital Queue Kiosk (QMS), Medistra Hospital.** Built the Android kiosk app: the patient flow, the real-time WebSocket connection to the backend, and an MVI + Clean Architecture codebase with unit tests. 11,000+ patient visits per month (monthly average).
- **Enterprise MDM Agent.** Built the always-on Android agent: Device Owner policies, an MQTT command channel, and WebRTC remote screen sharing and input.
- **Digital Signage Player: BNI, AntaraNews, Imigrasi.** Built the player app with on-device caching and automatic recovery: retries, crash-loop detection and a watchdog.
- **Stempel (Salin.Cloud).** Building the app for both platforms with Compose Multiplatform, modular Clean Architecture, Ktor networking and offline-capable local storage.

Android Developer (Kotlin) · Telehealth Indonesia

Freelance · 2024 - present

Freelance Android work on telehealth apps and medical device integration.

- **ATM Sehat (2026).** Reworked the BLE layer (connection handling, GATT negotiation, transfer strategy) and unified device and API readings into one patient record.
  ~5 min → <5 s per BLE measurement session, observed in operation.
- **TEA App (2024).** Patient health data synced into one dashboard with interactive charts and history logs.

Earlier cross-platform work: React and React Native at GetGoing (Sep 2024 – May 2025), and Flutter at SplitOff (Jan – Mar 2024).

PROJECTS

- **Feggyfy** (Sep 2024 – Mar 2025). Early crop disease detection for farmers in Kenteng, Boyolali. Built the Android app end to end with Jetpack Compose, CameraX and on-device TensorFlow Lite (MobileNetV2). >70% model accuracy, validated by local farming experts on real-world field images.

SKILLS

Android engineering

Kotlin, Java, Jetpack Compose, XML Layouts, Material Design 3, CameraX, Room, DataStore, Navigation, WorkManager, ViewModel

Cross-platform

Compose Multiplatform (Android and iOS), Ktor

Architecture & quality

Clean Architecture, MVI, MVVM, Multi-Module Gradle, SOLID, Hilt / Dagger, JUnit, Espresso, Instrumentation testing, CI/CD (Codemagic), Firebase Crashlytics

Networking & real-time

Coroutines, Flow / StateFlow / SharedFlow, RxJava, Retrofit, OkHttp, REST, WebSocket, MQTT, WebRTC, Firebase Realtime Database

Devices & applied tech

Bluetooth Low Energy, Android Enterprise / Device Owner, Accessibility Service, IoT device integration, TensorFlow Lite, MobileNetV2, Transfer learning

EDUCATION

Bachelor's Degree, Informatics Engineering Nov 2021 - Mar 2025

Ahmad Dahlan University, Yogyakarta · GPA 3.80 / 4.00

CERTIFICATIONS

- **Becoming an Android Developer Expert**, Dicoding Indonesia (Mar 2024 – valid until Mar 2027)
- **Mobile Development Distinction Graduate (Top 10%)**, Bangkit Academy (Jan 2024)

LANGUAGES

Indonesian (native) · English (professional working proficiency)