EPHRAIM KANYANDULA

ANDROID SOFTWARE ENGINEER | KOTLIN & JETPACK COMPOSE | MOBILE, TV & AUTOMOTIVE

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Irish citizen | Authorised to work in Ireland, the EU and UK without sponsorship

PROFESSIONAL PROFILE

Android Software Engineer building Kotlin and Jetpack Compose experiences in a large consumer streaming platform across mobile, tablet, TV, Fire OS and automotive. Previously led a three-person team delivering a real-estate Android product end to end. Experienced in modular architecture, authentication and account journeys, media playback, offline-first data and automated quality checks; creates AI-assisted engineering workflows adopted across multiple disciplines.

PROFESSIONAL EXPERIENCE

Android Software Engineer II | SiriusXM

Feb 2025 - Present

Dublin, Ireland

- Contribute to account, onboarding and subscription experiences in a large modular Android codebase, covering sign-in journeys, authentication options (including OTP and passkeys), entitlements and deep linking.
- Co-delivered SMS opt-in changes across phones, tablets and Android TV, implementing UI, business logic, API integration, feature flags, defect fixes and automated tests.
- Evaluated Android recording APIs, prototyped voice capture and waveform visualisation, implemented production S3 uploads using WorkManager, and contributed to content-sharing features.
- Worked on media playback experiences and investigated SDK-controlled defects; proposed app-level fallback behaviour while upstream fixes were assessed.
- Built reusable Glean MCP-powered documentation workflows with guideline-based review and human approval; delivered an internal tech talk and achieved adoption across Android, iOS, Web and Automotive engineering.
- Extended internal AI code-review tooling with severity-ranked Jetpack Compose checks for state, recomposition, lifecycle, side effects and accessibility.
- Supported onboarding through Confluence guides and CI walkthroughs; identified missing localisation keys, design states, API dependencies and deep links during pre-implementation reviews.

Android Developer / Team Lead | Khaya265

Jan 2023 - Feb 2025

Dublin, Ireland

- Led end-to-end development and maintenance of a real-estate Android application, from requirements and architecture to feature delivery, testing, Google Play publication and support.
- Managed a three-person engineering team: allocated work, mentored developers, reviewed pull requests, made architectural decisions and coordinated releases with stakeholders.
- Modernised Java/XML Android implementations with Kotlin, Jetpack Compose and Coroutines; introduced feature flags for controlled releases.
- Adopted cache-first local data access with background refresh and WorkManager scheduling for deferred synchronisation.

Full-Stack Engineer | Panyumba

2018 - 2019

Malawi

- Built native Android, web and backend functionality for a student-accommodation booking and rental platform, supporting testing and deployment.

SELECTED ENGINEERING PROJECTS

NyasaPlayer | Mobile & Android Automotive music player

github.com/Kanyandula/NyasaPlayer

- Architected a multi-module Kotlin/Compose application with separate mobile and AAOS interfaces, shared domain/data modules, reusable UI elements and Media3 playback infrastructure.
- Implemented Room-backed offline catalogue browsing and downloaded playback, with Firebase synchronisation and connectivity-aware handling for streaming tracks.
- Built a Claude-assisted Python pipeline for media metadata extraction, genre classification, track duration, artwork sourcing and structured Firebase catalogue ingestion.

NotifyBridge | Local-first Android / MQTT integration

github.com/Kanyandula/NotifyBridge

- Developed Android notification forwarding to MQTT and Home Assistant, with a persistent local outbox designed for unreliable connectivity.
- Implemented English, French, Spanish and Portuguese localisation with an in-app picker, Android per-app language support and build-time generated typed Kotlin accessors.
- Added dictionary validation for missing keys, placeholder and plural mismatches, plus 20 screenshot baselines spanning seven screens and translated/large-font cases.

claude-statusline | Open-source CLI tooling

www.npmjs.com/package/@kanyandula/claude-statusline

- Published a configurable zero-dependency Node.js/TypeScript CLI for Claude Code with automated tests and CI/CD release automation.

NyasaBlog | Full-stack writing platform

nyasablog.com

- Created a content platform with Django, REST APIs, Docker and Nginx on DigitalOcean, alongside a native Android client.

TECHNICAL EXPERTISE

Android: Kotlin, Java, Jetpack Compose, Android SDK, Android TV, Fire OS, Android Automotive OS, Media3/ExoPlayer, Coroutines/Flow, WorkManager, Room, Hilt/Dagger, Navigation

Architecture: Modularisation, MVVM/MVI, Clean Architecture, repository pattern, reactive UI state, offline-first data, cache-first synchronisation

Testing & delivery: JUnit, MockK, Espresso, MockWebServer, Paparazzi/screenshot testing, integration testing, Gradle, GitHub Actions, CI/CD, Google Play releases

AI-assisted engineering: Claude Code, Codex, Glean MCP, repository-context tooling, reusable agent skills, parallel code review, technical documentation automation

Backend & DevOps: Python, Django, TypeScript, REST APIs, SQL, Firebase, Docker, Nginx, Linux, Git, DigitalOcean

EDUCATION & CERTIFICATION

BSc, Full-Stack Mobile Development | Dorset College Dublin | 2016 - 2018

Diploma in Computer Science | University of Malawi

Google Associate Android Developer | 2019