

Guido Cardinali

Senior Android Engineer

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Professional Summary

Senior Android Engineer with 9+ years of experience developing native applications and software for connected medical devices. Hands-on expertise in Kotlin, Java, mobile architecture, legacy modernization and automated testing. Experience as an Individual Contributor and Mobile Team Lead across consumer products and spirometry and oximetry applications.

Technical Skills

Android: Kotlin, Java, Android SDK, Jetpack Compose, XML Views, Room, SQLite.

Architecture and concurrency: MVVM, modularization, Kotlin Coroutines, Kotlin Flow, LiveData, RxJava.

Integration and quality: Bluetooth Low Energy (BLE), WebRTC, FHIR, HL7, unit testing, refactoring.

Additional technologies: Kotlin Multiplatform (KMP), Flutter, Dart, Riverpod, ASP.NET Core, PHP, WordPress.

Professional Experience

Senior Software Engineer / Senior Android Engineer

Independent Contractor | Clients: Sisal, Angi.com, University of Toronto

01/2022 - Present

- Sisal: develop critical, performance-sensitive features for a native Android sports betting application within a large engineering organization.
- Sisal: contribute to the migration from XML Views to Jetpack Compose, using Kotlin, Room, Coroutines and Flow.
- Angi.com: refactored an existing Android application from RxJava to Kotlin Coroutines, LiveData and Flow as part of a 30-developer team.
- Angi.com: delivered a guided onboarding experience for contractors, covering setup and first-use tasks with completion tracking on the home screen.
- University of Toronto: designed and developed an Android application from scratch to integrate with a BLE device, working directly with a university professor.

Senior Software Engineer and Mobile Team Lead

MIR SpA

01/2019 - 12/2021

- Progressed from Software Engineer to Senior Software Engineer and Mobile Team Lead, working on respiratory monitoring products and medical-device applications.
- Designed the architecture of new mobile applications with a focus on scalability, maintainability and testability.
- Introduced automated testing across the team, reaching approximately 85% unit-test coverage for SDKs and 60% for applications.
- Led the adoption of Kotlin, LiveData and Coroutines in Android development to reduce the impact of NullPointerExceptions and improve delivery velocity.
- MIR SPIROBANK: developed Android features with Kotlin, Room, Coroutines, LiveData and BLE for spirometry and oximetry, including SpO2 and BPM measurements; supported video consultations and real-time tests using WebRTC and LiveSwitch SDK.

- MIR SMART ONE: developed features in Java and Kotlin with SQLite and XML Views; acquired measurements from a BLE spirometer, displayed results in tables and charts, and implemented data sharing and FHIR / HL7 integrations.

Software Engineer

Freelance

12/2016 - 12/2018

- Developed Android applications and WordPress websites for small clients, from requirements analysis through implementation, integration and delivery.
- Implemented backend features using PHP and ASP.NET Core.

Personal Projects

Nanday Personal Finance

Personal-finance application built with Kotlin Multiplatform (KMP), integrating financial APIs to manage personal finances.

Condominio App

Application built with Flutter and Dart to manage my condominium and create meeting minutes, meeting notices and other condominium documents.

Cosmos

Personal-finance Android application with a local ASP.NET Core backend hosted on Raspberry Pi. Stack: Jetpack Compose, Room, SQLite, Coroutines, MVVM and encryption.

Back And Forth

Android application for tracking debts and credits between friends. Stack: Kotlin, Jetpack Compose, Room, Coroutines, Flow and MVVM.

Vault

Password manager deployed on Android and Windows, synchronized with a self-hosted local backend. Stack: Flutter, Dart, Riverpod and MVVM.

Additional Activities

Condominium Administrator.

Languages

Italian: native. English: fluent.

Portfolio

nanday.dev - Portfolio and personal projects.