



Mehdi Janbarari

Senior Android Engineer

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Birth: 4th Jan 1997

Sari, Mazandaran, Iran

SUMMARY

I am an experienced Android Engineer with over 11 years specializing in Android SDK, Gradle, modularization, Kotlin, Jetpack Compose, concurrency management, dependency injection, performance optimization, and service integration.

As an active contributor to the open-source community, I developed an analytics plugin for the Gradle build system, which is widely adopted by leading tech companies.

Throughout my career, I have successfully worked in diverse organizations with varying team sizes, consistently delivering outstanding results. My portfolio includes the development of notable applications such as a parental control app, map area calculator app, video streaming app, and shopping app.

Collaboration and teamwork are integral to my work style, and I enjoy engaging with colleagues to foster a productive and innovative environment.

SKILLS

Language Kotlin, Java, Gradle(groovy)

Android ViewModel, Services, Work Manager, Content Provider, Broadcast Receiver

Architecture Clean Architecture, MVVM, MVI, Decoupled MVI, SOLID Principles, Design Patterns

UI Jetpack Compose, Navigation Component

Concurrency Coroutines, Flow, RxJava

DI Hilt, Dagger2, Koin

Network Retrofit, Ktor, OkHttp, Gson, Moshi

Test Junit, Mockk, Espresso

VCS Git

Hardware NFC, Bluetooth, GPS, Motion Sensors, Camera

Database Room, Jetbrains Exposed, SQLite

CI/CD Github Actions, CircleCI, Bitrise, GitlabCI, Codecov

Others Detekt, IPC, Gradle Plugin, Composite Build, Version Catalogs, Modularization, Build Time Optimization, Firebase SDK, LSL(Lab Streaming Layer), KMP

WORK EXPERIENCES



Lead Android Developer

Virgobit (Munster, Hesse, Germany)

Fulltime

04/2023 – Present

Virgobit is a dynamic team of passionate researchers and developers, dedicated to creating innovative solutions to complex problems.

I lead the Android developer team at Virgobit, utilizing cutting-edge technical solutions within an agile framework.

I built the Virgobit Spica app, a synchronized multimodal health data collection platform for remote patient monitoring. This app streamlines data capture from wearable and smartphones, ensuring secure, real-time storage and analysis. It enhances research efficiency and patient engagement by consolidating data collection into a single, user-friendly system.

I developed a plugin to connect the Muse wearable headset with the Spica platform for seamless data recording and synchronization.

I developed a plugin to connect the Xon wearable headset with the Spica platform for seamless data recording and synchronization.

I built a research app that generates analyzed charts by tapping into a real-time EEG stream using the LSL(Lab Streaming Layer) protocol and filtering the result with a custom filtfilt(bandpass).



Senior Android Developer

COTO (Singapore, Singapore)

Contract

12/2022 – 02/2023

COTO is a social app for women to own and monetize communities.

I improved app build time by 40%, resulting in annual time and cost savings.



Android Developer

Delivery Hero (Berlin, Germany)

Contract

02/2022 – 05/2022

Delivery Hero is a global online food delivery company.

As a member of the Rider Mobile Infra team at Delivery Hero, I made significant improvements to the Rider app, including reducing Gradle build time by 35% through the use of composite builds and upgrading AGP, optimizing Lint execution time by 88%, and migrating obfuscation from ProGuard to R8. I also provided Incremental Build benchmarks to measure the improvements in performance.

**Senior Android Developer**

Immabeme Solutions Private Limited (Uttar Pradesh, India)

Fulltime

07/2020 – 02/2022

IQ offers a comprehensive solution for the public, including food ordering, access to parking, campus, or toll, and a wide range of nearby stores.

I developed two Kotlin-based apps with a custom blurry design system, incorporating shared infrastructure modules, a custom CI/CD pipeline, and Cloud OCR for image processing to detect Indian car plate numbers. The apps also utilized Android services such as beacons, NFC, Location, Firebase DeepLink, Analytics, Push Notification, and a camera.

My work on these projects earned me the "Best Employee of the Year" award in April 2021.

**Android Developer**

Javaneh Zehn Pouya (Tehran, Iran)

Fulltime

03/2019 – 07/2020

I developed a modular platform for Android that streamlined the maintenance of 40 apps within a central project. This platform significantly reduced deployment time and effort. With a single click, all apps could be built and deployed, with automated application of configurations, proguard rules, and signing keys. Additionally, I created a Rule Merger script, implemented a personalized speech-to-text popup using the Android speech API, and developed two ExoPlayer-based video streaming apps with a customized player interface. These achievements highlight my ability to deliver efficient solutions and enhance user experiences in Android development.

**Software Engineer**

Shabnam Mattress Co (Mazandaran, Iran)

Fulltime

06/2014 – 01/2019

I worked for a long time with a very talented lead and focus on many projects, such as the company shopping android app, Internal CRM app, and maintenance and development of the Rest API web services.

**Freelancer Software Developer**

Self-employed

Fulltime

02/2011 – 06/2014

EDUCATION**Bachelor of Software Engineering**

Azad University (IAU)

2013 – 2017

LANGUAGES

English: Fluent

Persian: Native

PROJECTS



Gradle Analytics Plugin

github.com/janbarari/gradle-analytics-plugin

Open-source
05/2022 – Present

With the Gradle Analytics Plugin, you gain a deep understanding of your build process. It offers unique visual and text-based metrics in HTML format, enabling you to analyze every aspect of your build pipeline. From initialization and configuration to dependency resolution, execution, and module-level details, this plugin covers it all.

Track build status, identify bottlenecks, and optimize your builds with ease. Visualize module dependency graphs, analyze parallel execution rates, and leverage valuable metrics like cache hits and successful build rates. With the Gradle Analytics Plugin, you have the power to streamline your build process and unlock faster, more efficient development workflows.



Sarparast | Parental Control App

sarparastapp.com

Personal
10/2019 – 04/2020

Sarparast is a comprehensive parental control platform that empowers parents to manage and monitor their child's digital activities with ease. From web history and location tracking to sleep time, screen time, and app management, Sarparast offers intuitive controls and insightful charts for a safer online experience. With features like personalized web blacklists, device monitoring, and a robust self-protection mechanism, parents can maintain control and peace of mind as they guide their child's digital journey.



KEvent

github.com/janbarari/kevent

Open-source
2020 – Present

KEvent is an innovative open-source library for Kotlin, designed to empower developers with its robust implementation of the publisher/subscriber pattern, fostering loose coupling and modularization. With minimal code, KEvent enables effortless communication between decoupled classes, enhancing code simplicity and promoting clean architecture. By simplifying complex code structures, reducing dependencies, and expediting application development, KEvent proves to be an indispensable asset for Kotlin developers seeking to streamline their projects and maximize productivity.



Map Area Calculator App

play.google.com/store/apps/details?id=io.github.janbarari.mapareacalculator

Personal
01/2020 – 03/2023

The Map Area Calculator is a free and easy-to-use tool that helps you measure area, distance, and perimeter on a map. Simply hit points on the map and the app will calculate the area and distance between them. It supports both imperial and metric units, making it useful for a wide variety of applications. The app also offers customization options, including multi-style maps and the ability to save and review measurements. With over 4,000 users on the Play Store, this project demonstrates my ability to develop practical solutions that make a real-world impact.



Android Cloud OCR

github.com/janbarari/android-cloud-ocr

Open-source

2021 – 2022

I developed a tool that uses ocr.space API to extract text from images. It's easy to use, accurate, and can process large volumes of images quickly.



Generic RecyclerView

github.com/janbarari/genericrecyclerview

Open-source

2019 – 2020

A simplified easy to use a smart RecyclerView and adapter to create dynamic content list like Youtube, Google play, Netflix.



Jupiter Slider

github.com/janbarari/jupiterslider

Open-source

2017 – 2019

An awesome auto slider for Android developers.



Music Feed Challenge App

github.com/janbarari/music-feed-app-challenge

Open-source

I developed an open-source Android app that showcases my skills in modern app development. It incorporates advanced features such as Kotlin, Coroutines, Clean Architecture, Jetpack Compose, MVI, Hilt, and Navigation Component, and is structured using API/impl modular architecture. The app demonstrates my dedication to continuous learning and improvement in the field of mobile app development.



AlgoEye

<https://github.com/janbarari/AlgoEye>

Open-source

2023 – Present

AlgoEye seamlessly measures memory usage, CPU usage, IO usage, execution time, and provides memory leak information for your Kotlin/Java algorithms and code blocks.

ARTICLES

[Introducing decoupled MVI approach for Android in 2023](#)

[Supercharge Your Builds with the Gradle Analytics Plugin](#)

[Introducing `runParallel` and `withParallel` for Enhanced Concurrency in Kotlin](#)