

Yamin Siahmargooei - Software Engineer - Android

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Summary

I'm a **Software Engineer** specializing in **Android App Development**. Skilled in **Android App Development** and have professional experience in **Kotlin** and **Java**. I also have semi-professional knowledge of **C**, **C++**, **C#**, **Python**, and **PHP** programming languages. As a Software Engineer, I'm interested in any type of software development; From **Embedded** programming utilizing AVR/ATmega with C, IoT projects by making use of Raspberry Pi/Arduino, **Back-End** projects using Ktor framework, **Full-stack** projects using Laravel, and mostly **Android** projects which are my main area of expertise.

Experiences

- **Freelance Software Engineer** Self-Employed
Sep 2020 - Present
Most of my freelance work is associated with developing **Android** applications using **Kotlin/Java (Compose/Views)** and publishing them in App stores such as F-Droid and CafeBazaar. I also published some Android libraries in Maven Repository.
- **Software Engineer** Aryan Spad - Gorgan
Sep 2020 - November 2023 3 yrs and 3 mos
I developed some **Android** applications for contractors and helped in the development of an Email Queue program using **Kotlin and Ktor** framework. I was also part of a small team that helped to develop multiple websites using **Laravel**, **.NET Core** and **WordPress**
- **Gap year - Career Break**
Dec 2018 - Sep 2020 1 yr 10 mos
Mandatory Military Service

- **IoT Apprentice** Golestan University - Gorgan
Dec 2017 - Aug 2018 9 mos
I worked on a project developing a platform for devices in IoT using a Raspberry Pi as a Gateway
- **Technical Support** Xperian.ir - Gorgan
Jan 2014 - Feb 2017 3 yrs 2 mos
Technical Support for WordPress and content creation about Sony Xperia devices

Education

- **Golestan University - Gorgan**
Bachelor of Science - BS, Computer Engineering
Sep 2014 - Sep 2018
Software Engineering
Thesis: Implementation of the server and gateway application based on the client-server model in the framework of an Internet of Things network

Skills

- **Programming Languages**
 - **Professional:** Kotlin, Java
 - **Intermediate:** SQL, C#
 - **Basic:** PHP, Python, C, C++ and etc
- **Tools and Technologies**
 - **IDEs:** Android Studio, IntelliJ IDEA, Visual Studio
 - **DBMs:** SQL Server, MySQL, PostgreSQL
 - GitHub, Gitlab
 - Material Design
 - **Jetpack Compose**
 - Laravel
 - ANTLR
- **Industry Knowledge**
 - Android App Development
 - Object-Oriented Programming and Design
 - Git Version Control
 - Data Structures
 - Refactoring
 - Clean Code
 - Clean Architecture
 - Regular Expressions

Languages

English - Full professional proficiency

Persian - Native or bilingual proficiency

Android Skills

- Android Views
- Activities, Fragments
- Android Life Cycle
- Jetpack Compose
- Basic Compose libraries: M3, Navigation and etc
- Retrofit/Ktor
- GSON/Moshi
- Dependency Injection using Hilt
- Room/SQLite
- DataStore/Shared Preference
- MVVM/MVI
- Clean architecture and modular app design (multi-module)
- Build flavors and CI builds
- Recompositions
- Canvas
- USB Serial
- Bluetooth/Bluetooth Low Energy
- Intents
- Coroutines and structured concurrency
- Dispatchers, Channels and Flows

Projects

Android

- **PrettyPersianNumbers**
An Android library to convert a number to a word for Persian/Farsi using Kotlin/JVM.
Published it to maven repository.
- **Dooz**
A simple pen-and-paper game. I created this implementation using Kotlin and Jetpack Compose for Android devices.
- **freeDictionaryApp** A simple android application for freeDictionaryAPI, published in F-Droid and CafeBazaar.
- **Gauge**
A fusion of classic and modern Gauges with some customization options for Jetpack Compose. Published to maven repository.
- **TimeRangePicker**
A Circular TimeRangePicker for Jetpack Compose on Android. Published to maven repository.
- **CafeBazaar** Apps published on CafeBazaar

JVM(Java, Kotlin)

- coinex4j
CoinEx Exchange API JVM Library created with help of the Retrofit library.
- grand-node-java-client
A JVM client for GrandNode2 API powered by Retrofit and Project Lombok.
- SpaceTradersKMP
SpaceTraders API wrapper for Kotlin Multiplatform (<https://spacetraders.io/>).
- InstaCLI
A CLI client for Instagram created using Retrofit, instagram4j, jackson and Kotlin Coroutines.

- TwitterScraper
A simple CLI tool for scrapping Tweets from Nitter without authentication

IoT

- **Monex**
I designed and implemented an Android App used as the interface for the Monex device. The app is implemented using Kotlin and Jetpack Compose UI and communicates with an Arduino device with USB Serial and Bluetooth.
- **Sist**
Sist is an app designed to plot and manage data provided by special sensors retrieved from the pressure from infants gulp ability during their breastfeeding period. These data are used by speech-therapists to help infants and their mothers to improve infants ability. Data is provided by an ESP32 device using BLE and is plotted in android using Canvas and saved using Room in a SQLite database.

Web

- **Androlaw**
I was part of a three-man group that designed and implemented this website. I helped in design and implementation of various pages on this website using Laravel, Blade, Bootstrap, and Javascript. My work included but not limited to implementing various controllers/services using PHP, designing front-end pages using Blade/HTML/CSS/JavaScript and bootstrap.
- **ansp.ir**
I helped in the design and development of the site back-end and databases, using .NET Core and PostgreSQL.

Other projects

- Github: <https://github.com/yamin8000>