Mobin Jafari

Senior Android Developer

Experienced Android developer with security skills. Loves to analyze the existing applications and improve them to design more robust systems.

💼 Experience

Senior Android developer at DadeGostar, Tehran

September 2022— present

- Developing Sanjeh Android application.

  Technologies = MVVM -Clean Architecture - Kotlin – NDK (c++) – Jetpack components - Socket -dagger hilt- Firebase – Room- Clean architecture – State Management – dependency injection - Coroutines

- Refactor Ravitoon android app, many bugs fixed and speed improved

  Technologies = SDK -NDK -MVVM - Kotlin – Dagger – coroutines – flow- Rest - Room – Jetpack - RxJava

Senior Android developer at PouyanAfzar, Tehran

July 2020 — September 2022

- Develop messenger that handles real-time connections with more than ~1500 daily users

  Technologies = MVVM - Kotlin – NDK (c++) – Jetpack components - Socket – Firebase – Room- Clean architecture – State Management – dependency injection - Coroutines

- Implement NDK (c++) module for Cafe Bazaar android app with ~50M monthly users.

  Technologies = NDK – JNI – FFMPEG – java – Crypto++ (c++ library)

- Develop ArkaPark android app, Drivers can find the nearest parking place and reserve them

  Technologies = MVVM - Java – Rest – Map SDK - SQLite – Jetpack - RxJava

- Manual penetration testing on company customers apps and providing solutions to solve more than 30 security weaknesses

  Technologies = Xposed – Frida – IdaPro (for NDK) – Reverse Engineering

  Debug & improve 8 application stability and adding many features
  Redesign 5 apps and improve concurrent users by 40%

Details

Iran

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Links

LinkedIn

Developing Skills

Android SDK
Android NDK
Java/Kotlin/C++
Clean Architecture
MVVM/MVI/MVC
Dagger / Hilt
Coroutines / RxJava
Room (ORM) / SQLite
All Jetpack components
Retrofit/Volley/ Firebase
LiveData/Flow
socket/rest
compose
gradle/DSL/ndk.mk

Android security Skills

Linux Kernel (familiar)
Memory management
Android OS Architecture
Android Security/Pentest
Xposed
Frida
FFMPEG (c++)

Common Skills

Git
SOLID
Agile/Scrum/Jira
Teamwork

Android Security researcher at Andishe Negar co, Tehran
February 2018 — July 2020

- Design a fast and reliable android sandbox which dynamically run, analyze, process and report real behavior of given APK, deep malware analysis and runtime behavior analysis

    Technologies = SDK – NDK - Xposed – Frida – Reverse Engineering – Linux – native binaries

- Design scalable sandbox VM infrastructure that handle up to 250 android sandbox VM on a single server (16 cores and 64 GB RAM)

- Review and upgrade the Xposed android sandbox system and make it compatible for Android 6+ (marshmallow)

- Develop new injector for Android Zygote Init (Dalvik VM)

- Penetration testing and reverse engineering more than 7 software to find weaknesses and potential vulnerabilities

Android developer at Rayan Andish Co, Tehran
February 2017 — February 2018

- Develop android tracker GPS-based application which allows employers to track their employees and drivers

    Technologies = MVVM - java – Jetpack components - rest – Firebase – Room- Clean architecture – State Management – dependency injection - Coroutines

- Migrate and refactor three existing applications from old MVC architecture to MVVM

- Develop an online training application (YadCenter)

    Technologies = MVVM - Kotlin – Jetpack components - rest – Firebase – Room- Clean architecture – State Management – dependency injection - Coroutines

- Improve performance of an application by redesign some parts using NDK

Android Developer at Sanandaj Technology Park, Sanandaj
February 2016 — February 2017

- Develop smart parking management system for Rebeen, Drivers used this application to find the nearest parking place and reserve them

    Technologies = SDK - Java – MVC – Rest - Map SDK

- Develop HIS android app for Atlas Raymond used by patients with ~40K monthly users

    Technologies = SDK - Java – MVP – Rest

- Develop Android app at WestDataco, used to fetch the latest cryptocurrency prices and Copy Trading

    Technologies = SDK - Java – MVC – SQLite

✪ Education

Software Engineering

Isfahan, Iran