

# Hadi Lashkari Ghouseh

## Software Engineer

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### Summary

A curious developer with over 17 years of experience in software development, where almost 7 years of his experience covers Android development, over 2 years covers teaching algorithms and programming in universities, and over 8 years covers academic and self-employed experiences while he was a student. An Introvert person who has profound learning and contributing skills. A creative, value-driven developer who enjoys doing math, solving problems and creating scalable, maintainable, testable and efficient apps to make the world a better place to live. He values bayesian mindsets. He pursue reproducible, frictionless, consistent, and scalable structures. A person whose goal is to surround himself with creative, clever, motive and happy persons, so he can continuously learn more and more, not just learning, of course. In fact, he has valuable knowledge and sturdy knowledge transfer skills to share it. He knows that working with great minds will unleash his potential to be more productive. He's interested in decreasing build time, improving productivity of engineers by tooling. With Gradle's unregulated world, who doesn't need a productivity engineer, or a passionate tool maker to automate everything in reach?

### Experience

#### Productivity Engineer

at MobileLIVE      Aug. 2022 - Present      Toronto, Canada

Promoted to Productivity Engineer to make tools and automate processes of the development life cycle to improve productivity.

Mission:

- Raise the need for Gradle Enterprise and Productivity Engineer in the team, which leads to be the one who setup the Gradle Enterprise in the project to improve the build time, and create the necessary tools.
- Investigate problems related to proxy and self-signed certificates in VPN networks, where by implementing a script to install them automatically increased the build count in GE dashboard by 164%.
- Implement a Jetpack Compose Desktop app, to prepare the configuration for building Bell's project.
- Raise and implement the need for Gradle Conventional Plugins to reduce duplication and errors, and also improve consistency among Gradle configurations and versions of external libraries.

Additional Technologies:

- Gradle Enterprise, Gradle Conventional Plugin, Jetpack Compose Desktop.

#### Software Engineer

at MobileLIVE      Apr. 2021 - Aug. 2022      Toronto, Canada

MobileLIVE is a Canadian tech-service provider unifying people, technology, and business to accelerate digital transformation. Over this time, he worked in Bell Canada as a full-time contractor. Bell Canada is subsidiary Bell Alliant provides services in the Atlantic provinces. It provides mobile service through its Bell Mobility (including Virgin Mobile Canada) subsidiary, and television through its Bell Satellite TV and Bell Fibe TV subsidiaries.

Mission:

- Introduced RFCs to make technical decisions and steps to applying on any new idea.
- Adding value by teaching and discussing SOLID principles, and best practices of modularization, feature flags, and monorepo, etc.
- Raise and implement the idea of automatically cloning and building all the source code in the multi-repo setup to reduce version conflicts, and improve code visibility for debugging purposes.

Technologies:

- Kotlin Coroutines / Mockk, Mockito, JUnit, etc.
- Agile, Sprint, Lane based branching strategy, CI/CD
- Atlassian Jira, Atlassian Confluence, Gitlab, Jenkins, Slack, Branch.io, inVision, Dynatrace, etc.

#### Staff Android Developer

at iFood      Oct. 2020 - Mar. 2021      Barcelona, Spain

iFood is an ambitious project to build an entire food delivery ecosystem for all around the world. Currently, it's the biggest food delivery in Brazil, Colombia and Mexico, with 50+ million apps installed on Android devices alone. The Android project is highly modularized to make it possible for 50+ developers working on it fast.

Mission:

- Propose and implement composite build to handle dependency management in Gradle. It decreased the rebuild time while updating a library from more than 13 min to less than a minute.
- Implement Android side of metadata project. Its purpose is gathering all information of our highly modularized Android/iOS projects in a dashboard along backend information.
- Propose and apply a concept to move out the legacy code from the root module. It decreased the rebuild time of freed up modules by 55%.
- Detect many ANRs and resolved them by applying architectural principles.
- Wrap up external libraries to better handling panic situations.

Technologies:

- Dagger 2, Room, Kotlin Coroutines, Moshi, WorkManager / Mockk, Robolectric, JUnit, etc.
- Agile, Sprint, Github Flow, CI/CD, Gradle Enterprise
- Atlassian Jira, Atlassian Confluence, Github, Jenkins, Slack, Databricks, Firebase, Bugsnag, Logzio, etc.

#### Senior Android Developer

at Letgo      Oct. 2019 - Mar. 2021      Barcelona, Spain

Letgo is the biggest classified marketplace in Turkey with 15+ million apps installed on Android devices alone.

Mission:

- Improve the performance of loading feeds by at least a minute
- Fix multiple Memory leaks
- Known as "The man who broke the escape room" to emphasize his ability to think out of the box

Technologies:

- Dagger 2, RxJava 2, Room / Mockito, Espresso, Robolectric, Jacoco, Ktlint, Fastlane, etc.
- Agile, Sprint, Github Flow, CI/CD, Dynamic Feature Module Delivery
- Atlassian Jira, Atlassian Confluence, Github, Jenkins, Slack, Figma, New Relic, Firebase, Amplitude, etc.

#### Lead Android Developer

at Sheypoor      Jan. 2018 - Jan. 2019      Tehran, Iran

Sheypoor is one of two lead classified marketplaces in Iran with 1.5+ million users per day, 13+ million overall users and 344+ million sessions.

Missions:

- Increase the number of users per day from 0.5+ million to 1.5+ million in a year.

Technologies:

- Dagger 2, RxJava 2, Butter Knife, Greendao / Mockito, Espresso, Jacoco, etc.
- Agile, Kanban, Git Flow, CI/CD / Pivotal Tracker, Github, Jenkins, Slack, Zeplin, etc.

#### Senior Android Developer

at Myket      Sep. 2015 - Des. 2017      Tehran, Iran

Myket is one of two lead app stores in Iran with over 8+ million users. TL;DR Mission: Starting TDD and installing Jenkin's pipeline to handle CI/CD.

#### Java and C# developer

at Soha System      Mar. 2015 - Aug. 2015      Tehran, Iran

SOHA is formed to focus on solutions based on smart cards. TL;DR Mission: Implementing Android and desktop apps.

### Article / Repository

- 2023 Post: Dependency Inversion Principle
- 2023 Contributing to nixpkgs/androidenv: Nix is a language that is designed to have reproducible output.
- 2022 Post: Logic Tree in Android
- 2022 Sample App: Molecule sample app to solve some scoping problems in Android development.
- 2022 Post: Reproducibility
- 2021 ProAndroidDev post: Are feature flags, build variants, and sample apps related concepts?
- 2021 iFood Engineering post: Modularization tip: optimize the Root Module.
- 2021 ProAndroidDev post: Happy Railway. An improvement for Railway Oriented Programming in Kotlin.
- 2021 Library: Happy is a library to auto-generate Kotlin code to make calling APIs more concise.
- 2020 POC: Rust Flutter Reactive is an idea to use Flutter as UI and Rust for the main project.
- 2020 Make Log4k Multiplatform: Simple logging library for Android, iOS, Mac, etc.
- 2020 ProAndroidDev post: A/B Testing Myths
- 2020 Sample App: Provide a full implementation for a No-Framework Dependency Injection in Kotlin
- 2020 Contributing on Arrow Library: Arrow is a library for Typed Functional Programming in Kotlin
- 2020 Library: A Kotlin compiler plugin that generates trackable method
- 2020 Medium post: Save State By Using RxJava or Kotlin Flow
- 2020 Medium post: RxJava instead of LiveData in MVVM
- 2020 Library: A glue between the lifecycle of LifecycleOwner in Android and upstreams in RxJava
- 2020 Library: A glue between the lifecycle of LifecycleOwner in Android and Kotlin Coroutines
- 2020 Library: Simplifier for unnecessary complex lifecycles
- 2019 Sample App: Functional Programming + Clean Architecture
- 2019 Sample App: Movie Challenge
- 2019 Math Library: Modularized, mathematical and multiplatform Kotlin library
- 2018 ProAndroidDev post: Logging in Kotlin
- 2018 Log4k Library: Easy logging library, but unfortunately it's in Sheypoor repository
- 2018 ProAndroidDev post: Reactive MVVM architectural pattern
- 2018 Sample App: Clean Architecture + RMVVM
- 2018 ProAndroidDev post: Loading entities from database and server API by using RxJava
- 2018 ProAndroidDev post: LiveData with single events
- 2018 LiveEvent library: It's useful to propagate single event to View

### Education

### Tools / Skills

#### Android

Partially Open Source Mobile  
Lifecycle/LiveData/Navigation/Paging/ViewModel  
Multidex/Test/Data Binding/WorkManager/Room  
Android Architecture Components/JetPack  
Anvil/Dagger 2/RxJava 2/Retrofit 2/...  
Kotlin Multiplatform/Kotlin Coroutines  
Kotlin Compiler Plugin/KSP/...  
Compose/Data Binding/View Binding/...

Summary of why he's interested:  
It's partially open source OS.  
Generally interested on Mobile Technologies.

#### Flutter

StatelessWidget/StatefulWidget  
StreamController/Isolates  
FFI

Summary of why he's interested:  
Generally interested on all cross-platform  
and multi-platform solutions.

#### Rust

tonic/prost/openssl/tokio/flatbuffers/thrift  
Rc/Arc/Mutex  
FFI

Summary of why he's interested:  
Rust's type system is what you need for scale-up.  
Borrow Checker restricts stops any memory leaks.  
Bevy, and Dioxus frameworks look like good  
candidates for cross-platform solutions.

#### Docker

Buildkit/Compose/Cache  
Summary of why he's interested:  
Reproducibility is the key to productivity.  
Isolation is the key to reproducibility.

#### Nix

NixOS/Nix Darwin  
mkDrviation/mkShell

Summary of why he's interested:  
Reproducibility is the key to productivity.  
Isolation is the key to reproducibility.

#### Architecture

Clean Architecture/Hexagonal Architecture  
Unidirectional data flow Architecture  
MVVM/MVI/MVP/RMVVM

#### Principle

Clean Code/SOLID  
Object Oriented Programming  
Functional Programming  
Stable Dependencies Principle  
Stable Abstractions Principle

#### Design Pattern

Factory/Builder/Singleton/...  
Adapter/Facade/Proxy/Visitor/Delegate/...  
Strategy/Chain of responsibility/...

#### Android test library

JUnit/Mockito/Espresso/Jacoco/...

#### Build Tool

Gradle/Cargo/Sbt/Maven/Ant/Make/...

#### Command Line Tool

grep/sed/netstat/awk/docker/...  
adb/sdkmanager/avdmanager/...

#### Development Tool

Pivotal Tracker/Jira/Jenkins/Travis/CircleCi/...

#### Programming Language

Java/Kotlin/Rust/Scala/Haskell/Python  
Groovy/Dart/JavaScript/Ruby...

#### Operating System

Linux(Nix OS/Fedora/Ubuntu/Debian), OS X

### Special Honor

- 2020 Had an offer from MobileLIVE, Toronto, Canada
- 2020 Had an offer from iFood, Remote
- 2019 Had an offer from Kik, Kitchener, Canada
- 2019 Had an offer from Letgo, Barcelona, Spain
- 2019 Had an offer from CRITICAL Techworks, BMW, Porto, Portugal
- 2019 Had an offer from The Next Big Thing, Berlin, Germany
- 2018 Received result-oriented badge in Sheypoor
- 2007 Ranked 44th among more than five thousand participants in the National Graduate Entrance Exam in Physics

### Language

English: Advance  
Farsi: Native

The source of this resume is in [github](#)  
Built on September 21, 2023