Hadi Lashkari Ghouchani

Software Engineer

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O Toronto, Canada

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Summary

Dedicated software developer with 19+ years of experience, including 9 years in professional Android development. Skilled in software architecture, algorithm design, and machine learning applications. - Expertise in creating scalable, maintainable, and efficient software

- Strong advocate for SOLID principles, SSOT, pure functions, and stateless design
- Passionate about applying machine learning to improve human life
 Experience teaching algorithms and programming at university level
- Committed to continuous learning and open-source contributions

- Proactive, and transparent, in technical decision-making Comprehensive mastery of Android ecosystem, from low-level system interactions to high-level app architecture. Eager to collaborate with creative, motivated teams in challenging technical environments.

Experience

Software Engineer -> Productivity Engineer

at Bell Canada (via MobileLIVE)

Aug, 2022 - Present

O Toronto, Canada

Promoted to Productivity Engineer.

Mission:

- Resolved VPN network proxy and self-signed certificate issues by developing an automated installation script and Jetpack Compose Desktop app, resulting in a 164% increase in build count on the Gradle Enter-
- Initiated and implemented Gradle Conventional Plugins to reduce code duplication and errors. Established Single Source of Truth (SSOT) for external library versions, significantly reducing runtime crashes caused
- Spearheaded the adoption of Merge Trains and Merge Request Pipelines in GitLab, creating a Proof of Concept (POC) workflow that demonstrably improved code quality and streamlined the integration process.
- Optimized test execution, reducing incremental runtime by 52% and improving overall development effi-
- Served as the primary resource for build-related training and support across a team of 50+ Android developers, enhancing team productivity and knowledge sharing.
- Implemented a custom No-Framework dependency injection solution across multiple app and library repositories, enhancing modularity, testability, and maintainability while minimizing build times by avoid-
- Integrated Detekt to verify code quality in the merge request's pipelines.

Additional Technologies:

• Develocity(Gradle Enterprise), Gradle Conventional Plugin, Jetpack Compose Desktop, Detekt

Software Engineer

at Bell Canada (via MobileLIVE)

m Apr. 2021 - Aug. 2022

Toronto, Canada

MobileLIVE: A Canadian tech-service provider specializing in digital transformation solutions. Bell Canada: Canada's largest telecommunications company, offering mobile services (Bell Mobility, Virgin Mobile), television (Bell Satellite TV, Bell Fibe TV), and internet services across the country.

Mission:

- Implemented a Request for Comments (RFC) process for technical decision-making, streamlining the evaluation and adoption of new ideas across the organization.
- Led regular knowledge-sharing discussions across the team on SOLID principles, modularization best practices, feature flag implementation, and monorepo architecture, elevating the team's overall code quality and architectural design skills.
- Conceived and executed an automated system for cloning and building source code across a multi-repo setup, significantly reducing version conflicts and enhancing code visibility for efficient debugging.

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 (via Letgo)

m Oct. 2020 - Mar. 2021

Barcelona, Spain

iFood is a leading food delivery platform, dominating markets in Brazil, Colombia, and Mexico. It's the market leader in Latin America with 50+ million Android app installations.

Mission:

- · Spearheaded the implementation of composite build for Gradle dependency management, reducing incremental build time from 13+ minutes to under 60 seconds when updating libraries
- Developed the Android component of a cross-platform metadata project, contributing to a comprehensive dashboard that unified information from highly modularized Android/iOS projects (200+ modules) with
- Initiated and executed a strategy to refactor legacy code out of the root module, resulting in a 55% decrease in incremental build time and improved overall system architecture
- Identified and resolved multiple Application Not Responding (ANR) issues by applying robust architectural principles, significantly enhancing app stability and user experience
- Engineered custom wrappers for external libraries to improve error handling and system resilience during critical failures.

- 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: Leading Classified Marketplace

m Oct. 2019 - Mar. 2021

Barcelona, Spain

One of the largest classified marketplaces in the United States at the time. Market leader in Turkey with 15+ million Android app installations. Mission-critical acheivment: Optimized feed loading performance, reducing launch time by over 60 seconds.

Lead Android Developer

at Shevpoor: Top-Tier Classified Marketplace

Tehran, Iran

Impressive user base: 13+ million overall users, 1.5+ million daily active users. High engagement: 344+ million sessions. Key Achievement: Spearheaded initiatives that tripled daily active users from 500,000 to 1.5+

Senior Android Developer

at Myket: Top-Tier App Store and Social Network

🗎 Sep. 2015 - Des. 2017

Tehran, Iran

Java and C# developer at Soha System

mar. 2015 - Aug. 2015

Tehran, Iran

Article / Repository

2024 Contribution to HF Candle: HF Candle is a Rust alternative to work with LLMs.

2024 Sample Rust App: A sample app to crawl an API and put the data in a database.

- 🥱 2024 City of Toronto RAG GPT: The project received the second position award in the TMLS Hackathon.
- ↑ 2024 Hair Segmentation: A ML model to detect and segment hair in images
 ↑ 2024 dragon detector: A simple ML model to detect dragon in images
- ☼ 2024 Nix Effect pod: Modularize effects of all kinds, and stay in-control, with NixOS and podman.
 ☼ 2023 Sample App: Refactored a Mastodon client app to a modularized Jetpack Compose-driven architecture.
- 🖸 2023 Contributing to nixpkgs/androidenv: Nix is a language that is designed to have reproducibile output.
- ▼ 2022 Post: Logic Tree in Android 2022 Sample App: Molecule sample app to solve some scoping problems in Android development.
- M 2022 Post: Reproducibility
 M 2021 ProAndroidDev post: Are feature flags, build variants, and sample apps related concepts?
 M 2021 iFood Engneering post: Modularization tip: optimize the Root Module.
- M 2021 iFood Engneering post: Modularization tip: optimize the Root Module.

 M 2021 ProAndroidDev post: Happy Railway. An improvement for Railway Oriented Programming in Kotlin.

 O 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.
 ¾ 2020 ProAndroidDev post: A/B Testing Myths
- 2020 Sample App: Provide a full implementation for a No-Framework Dependency Injection in Kotlin
- O 2020 Contributing on Λrrow Library: Λrrow 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

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Education

Sharif University Of Technology Payame Noor University

B.Sc

M.Sc

in Physics

in Physics 🛗 Jul. 2007

O Tehran, Iran Mashhad, Iran

Tools / Skills

Android

Android Architecture Components/JetPack Anvil/Dagger 2/RxJava 2/Retrofit 2/.. Kotlin Multiplatform/Kotlin Coroutines custom Kotlin Compiler Plugins/... custom KSP plugins/.. Compose/View Binding/..

Professional Summary, Interests, and Insights:

- Android is partially open source OS.
 He generally interested in distributed computations.

Software Architecture

Clean Architecture/Hexagonal Architecture Unidirectional data flow Architecture Stateless Architecture Logic Tree Architecture MVVM/MVI/MVP/RMVVM

Principle

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

Design Pattern

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

Modularization Strategies

Applying DIP/Decrease incremental build time Code isolation to reduce dependencies

Continuous Integration/Deployment

Jenkins, GitLab CI, Fastlane

Android Performance Optimization memory management/threading/profiling tools

Android Security

encryption/secure networking/permissions model

Android Test and Verification Unit/Integration/Mockito/Espresso/JaCoCo/... Detekt plugins/Konsist

Android Build System

ProGuard/R8/custom Gradle plugins **Build Tool**

Command Line Tool tmux/bash/grep/sed/netstat/awk/podman/... adb/sdkmanager/avdmanager/...

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

Rust

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

Professional Summary, Interests, and Insights:
- Rust's type system is what you need for scale-up.

Borrow Checker restrictly stops any memory leaks. - The second most efficient programming language.

Podman/Docker Buildkit/Compose/Cache

- Reproducibility is the key to productivity. - Isolation is the key to reproducibility.

Nix NixOS/Nix Darwin

mkDrivation/mkShell

- Professional Summary, Interests, and Insights: Reproducibility and isolation are guaraneed.
 Respecting pure functions, building block of caching.
- More consistent caching experience than containers.

Programing Language

Kotlin/Rust/Python/Java/Scala Groovy/Dart/Javascript/Ruby...

Workflow

Trunk Based development/Github flow/Git Flow Cross-functional team

Operating System

Linux(NixOS/Fedora/Ubuntu/Debian), MacOS

Achievements and Recognition

- 2024 Second position in AWS Summit's Gameday
- 2024 Second position in Toronto Machine Learning **#TMLS Hackathon**
- 2020 Had an offer from MobileLIVE, Toronto, Canada
- 2020 Had an offer from iFood, Remote 2019 Had an offer from Kik, Kitechener, 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

Language

English: Advance Farsi: Native

The latest version of this resume is available in github Built on October 19, 2024