# Hadi Lashkari Ghouchani

# Software Engineer

@ hi@hadilq.com

*♠* hadilq.com

Toronto, Canada in linkedin.com/in/hadilq

github.com/hadilq

X x.com/@hadilq

## **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 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 Enterprise(Develocity) dashboard.
- $Initiated\ and\ implemented\ Gradle\ Conventional\ Plugins\ to\ reduce\ code\ duplication\ and\ errors.\ Established$ 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 avoiding code generation.
- 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.

- $\bullet \quad \text{Implemented a Request for Comments (RFC) process for technical decision-making, streamlining the evaluation of the results of the comments of the results of the re$ uation 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.

- 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.

- · 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

# 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: 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

# Lead Android Developer

at Sheypoor: Top-Tier Classified Marketplace

m Jan. 2018 - Jan. 2019

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+ million within one year.

# Senior Android Developer

at Myket: Top-Tier App Store and Social Network

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

- 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.
- M 2023 Post: Dependency Inversion Principle O 2023 Contributing to nixpkgs/androidenv: Nix is a language that is designed to have reproducibile output.
- 1 2022 Post: Logic Tree in Android 2022 Sample App: Molecule sample app to solve some scoping problems in Android development.
- ✓ 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 FroAndroidDev post: Modularization tip: optimize the Root Module.
   ✓ 2021 ProAndroidDev post: Happy Railway. An improvement for Railway Oriented Programming in Kotlin.
- 7 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 Ul 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
- $\bigcirc$  2020 Contributing on  $\Lambda$ rrow Library:  $\Lambda$ rrow 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
- 7 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 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

M.Sc

# **Education**

Sharif University Of Technology Payame Noor University

in Physics in Physics

# Feb. 2010 🛗 Jul. 2007 O Tehran, Iran Mashhad, Iran

### **Tools / Skills**

#### 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.

PostgreSQL(UDF)/MySQL/SQLite

zigcoro/Metaphor

Professional Summary, Interests, and Insights:

C is the language for humanity's best software. - Zig is a safer C.

### Podman/Docker

Buildkit/Compose/Cache

Professional Summary, Interests, and Insights:
- Reproducibility is the key to productivity. - Isolation is the key to reproducibility.

#### 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.

#### Software Architecture

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

#### Principle

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

# Design Pattern

Android test library

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

JUnit/Mockito/Espresso/JaCoCo/...

**Build Tool** Nix/Gradle/Cargo/Sbt/Maven/Ant/Make/...

#### **Command Line Tool** tmux/bash/grep/sed/netstat/awk/podman/...

**Programing Language** Kotlin/Rust/Python/Java/Scala

adb/sdkmanager/avdmanager/...

### 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,

## 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 22, 2024