



# Mohsen Afshar | Android Engineer

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## Summary

- **T-Shaped Android Engineer with over 10 years of experience and years of experience in related fields** including game development with Unity engine as well as front-end and **back-end development**
- Professional experience in developing applications with more than **80M installs** on Android application stores
- **Strategic technical problem-solver** skilled at translating complex business requirements into parallel technical roadmaps, negotiating cross-team SLAs, and driving large-scale architectural migrations.
- **Solving problems** is a kind of habit for me and doing so makes my life more joyful
- As a team member, I'm passionate about suggesting multiple solutions, discussing them with my teammates, and finding the best solution that fits specific problems throughout **Teamwork**
- **Eager to learn and share** my knowledge, both technical and non-technical
- Enthusiastic about **Architectural styles and patterns, design patterns**, and writing clean code

And specifically:

- Solid knowledge of commonly used architectures like **MVVM MVP MVI VIPER** and familiar with **RIB** framework
- Strong background in reactive programming - **RxJava RxAndroid, Kotlin Flow**, etc.
- Deep understanding of **SOLID, GRASP, HOLYWOOD** principles
- Experienced with **Automated Unit, UI, and End-To-End Tests** and related tools and concepts
- Solid knowledge in developing **smooth, precise, and high-performance UIs** using both **Jetpack Compose** and traditional view systems.
- **Platform & Systems:** Deep experience in **AOSP** source code customization, system-level feature integration, and modern security implementations (OAuth 2.0 / OIDC).

## Employment History



**SENIOR AOSP/ANDROID ENGINEER | MAHSAN | APR, 2025 - Present**

- Maintained and expanded Android Open-Source Project (**AOSP**) capabilities by developing new system-level features and integrating custom applications.
- Engineered and deployed a new, high-performance **Over-The-Air (OTA) service** utilizing Golang.
- Fortified system security by migrating the authentication pipeline from a legacy cookie-based model to a robust **OIDC OAuth 2.0 architecture**.

- Evaluated and optimized backend performance by conducting rigorous load testing using **k6** and **implementing comprehensive monitoring tools**.
- Streamlined the **CI/CD pipeline** by configuring GitLab Runners and **Dockerizing** the application, vastly improving deployment speed, portability, and maintenance.
- Contributed to front-end application improvements to enhance overall stability and user experience.



#### SENIOR ANDROID ENGINEER | TAPSI-BOX | DEC, 2024 - APR, 2025

- Analyzed business requirements and translated them into actionable technical sub-tasks, enabling efficient parallel development across the engineering team
- Architected and documented a comprehensive, multi-phased migration plan to transition the legacy application (from the parent company, Tapsi) to a newly defined Domain Model.
- Identified architectural bottlenecks during the migration and authored technical proposals for code improvements, establishing scalable best practices and fostering knowledge sharing.
- Negotiated and established clear SLA contracts with the backend team to define client-server capabilities and integration standards.
- Contributed directly to the core codebase during the complex migration phase, ensuring high-quality and timely implementation.
- Facilitated cross-team technical alignment meetings to ensure a shared understanding of architectural goals, significantly reducing potential rework and technical debt.



#### CAREER BREAK | JUN, 2023 - DEC, 2024

- Founded **Dade Pardazan Faraz Co.**, building and leading a team of 5 developers to research and develop IT product prototypes
- Led the full development lifecycle of Android, back-end, and front-end app prototypes, utilizing Kotlin, Golang, NodeJS and ReactJS
- Coached teammates in expanding their skills beyond their initial specialties, fostering a multidisciplinary approach
- Initiated two personal projects, exploring new technologies, frameworks, and programming languages
- **Front-End Development:** Developed web applications using **ReactJS, MUI, JOY, React Router6, Redux, RTK**
- **Back-End Development:** Developed Microservices using **Golang and NodeJS** based on **DDD**
- **Real-Time Communication:** Gained experience in developing **WebRTC** applications
- Acquired experience in leveraging tools such as **Kubernetes, Helm, ELK on docker compose, Gitlab CI/CD plus Ansible** for automation
- Focused on personal growth, prioritized my health, enjoyed my time and started learning new languages — Deutch and Italian



### SENIOR SOFTWARE ENGINEER | MOFID SECURITIES | DEC, 2021 – JAN, 2023

- Improving code readability and maintainability by refactoring the old code base and **migrating to modern technologies** – both Bambo and Mofid-App applications
- Proposed solutions for architectural problems which resulted in an **extendable and easy to maintain architecture**
- Refactored some screens to make use of **Jetpack Compose**
- Fixing **performance** bottlenecks and error-prone codes
- Responsible of publishing applications and solving related issues
- **Mentoring android team members** - Holding regular technical meetings in addition to pair programming sessions
- Being an active-creative member in brainstorm sessions
- As a Back-end Developer, Developed RESTful APIs using microservices, DDD, NodeJS, Redis, RabbitMQ and BullMQ
- Documented web services and their communications using PlantUml



### ANDROID INSTRUCTOR | MAKTAB SHARIF | JUN, 2021 – JUN, 2023

- Taught Android application development to groups of about 20 students per semester, focusing on **Clean Architecture**, design patterns, **OOP principles**, and best practices
- Introduced students to **various architectural styles and patterns**, helping them understand the benefits of **modular, scalable and maintainable code**
- Organized students into teams to collaborate on real-world projects, **fostering teamwork and project management skills**
- Utilized **Trello** to manage project progress, assigning roles and tasks to ensure structured workflows
- Managed teaching teams consisting of an educational expert and 4 mentors, conducting daily and weekly sessions to ensure continuous learning and improvement
- Oversaw project development, provided guidance, and resolved any team-related challenges in a remote environment



### SENIOR ANDROID ENGINEER | RUBIKA | OCT, 2020 – JUL, 2021

- Coached teammates to write clean, extendable, and testable codes
- Refactored main screens of the Rubika application using **coroutines, constraint-layout, Exoplayer, and custom views** which resulted in cleaner codes
- Improved performance of some custom views by rewriting their algorithms



### SENIOR SOFTWARE ENGINEER | HASIN GROUP | AUG, 2019 – NOV, 2021

- Designed architecture and developed Taraabarnet application by TDD approach from scratch
- Involved in analysis, design and implementation and testing phases of application development lifecycle
- Gained experience in coaching teammates
- Implemented publish/subscribe pattern between back-end and android client using MQTT and RabbitMQ

- Gained experience in developing microservices using domain driven design, NodeJS and .NET core and specially IdentityServer4



#### **ANDROID DEVELOPER | PARDAZESH NEGAR RASHIN | MAR, 2018- JUN, 2019**

- Gained Experience in reactive programming using RxJava and RxAndroid
- I had a terrific opportunity to learn more about scrum ceremonies
- Participate in developing two location-based applications using MVVM, Rx, Databinding, LiveData, Google services



#### **ANDROID DEVELOPER | CHAPAR | JUL 2017 - MAR, 2018**

- Developed Rakeb application which was responsible of generating invoices from user data inputs, customer signatures, and printing them by connecting to printer devices via Bluetooth

## **Education**

### **BACHELOR DEGREE IN NUCLEAR PHYSICS**

Institution: Semnan University

Year of Graduation: 2015

## **Certificates**

### **SOFTWARE ARCHITECTURE: PATTERNS FOR DEVELOPERS**

LinkedIn

Certificate Id: AYRJR1pYe20EmwvuQKKvXozgtPuQ

[Certificate Link](#)

### **EXECUTIVE LEADERSHIP**

LinkedIn

Certificate Id: AfgR1vReFl77guR1\_1Gi0ExRPM5A

[Certificate Link](#)

### **CRITICAL THINKING AND PROBLEM SOLVING**

LinkedIn

Certificate Id: Afy0am8a3\_DJ03cA4V1nSf6GYfwt

[Certificate Link](#)

### **DEVELOPING YOUR EMOTIONAL INTELLIGENCE**

LinkedIn

Certificate Id: AYDwAUcQf4o0XimKrA55NtF70j4J

[Certificate Link](#)

## Courses

### DIVIDE AND CONQUER, SORTING AND SEARCHING AND RANDOMIZED ALGORITHMS

Coursera

Reviewed at 2021

### ANDROID PERFORMANCE

Udacity

Reviewed at 2022

## Skills & Abilities

### SOFT SKILLS

- Emotion management    Creativity    Responsibility    Time Management
- Leadership    Critical Thinking and problem solving

### HARD SKILLS

- Android    Kotlin    Java    JavaScript    Node.js    C#    NET core
- MVVM    MVI    MVP    VIPER    RIB
- SOLID    GRASP    HOLLYWOOD    DRY    KISS
- RxJava    RxAndroid    RxKotlin    Coroutine    Flow
- Dagger    Hilt    Koin    Kodein
- Agile methodologies    Jira    Trello    Git
- GoF Design Patterns    SAGA    CQRS    Anti-Corruption layer
- Circuit Breaker    Retry    Pub/Sub    Pipe & Filters
- Architectural styles    Microkernel    SOA    Component-based
- Event-based    DDD
- Room    SQLite    MongoDB    MySQL    PostgreSQL
- gRPC    MQTT    Socket.IO
- Docker Compose    Docker    CI/CD    Network+    Ansible
- React.js    Redux    RTK    MUI    Material-Joy    React-Rouer    Typescript