Arad Beyranvand

Flutter Developer · Dart · Cross-Platform Open-Source Development

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GitHub: github.com/ArAd1Beyranvand | Portfolio: arad80.ir

SUMMARY

Software Developer specializing in Flutter and cross-platform development, with experience building applications from scratch, refactoring existing code, and developing and maintaining open-source packages. Developed a multi-language license plate component ecosystem with implementations in Flutter/Dart, TypeScript, Python, and Kotlin. Five of my projects are live on arad80.ir.

TECHNICAL SKILLS

Flutter Development: Flutter, Dart, Clean Architecture, BLoC, Cubit, freezed, CustomPainter
APIs and Data: REST APIs, Dio, http, WebSockets (web_socket_channel), SharedPreferences, Hive, sqflite, Firebase Authentication
Device and Platform: Geolocation, accelerometer/gyroscope sensors, offline-first architecture, melos monorepos, localization (fa/en, RTL)
Testing: Unit, widget, golden and bloc tests
Web and Server: React, TypeScript, Django, Docker, Nginx, Linux VPS
Tools and Version Control: Git, GitHub, GitLab, pull requests, merge-conflict resolution, Android Studio, Gradle, pub.dev package publishing
Programming Languages: Dart, TypeScript, JavaScript, Python, Kotlin, Java

EXPERIENCE

Freelance Flutter Developer — Dr. Duke

Farvardin 1402 – Farvardin 1403

- Independently developed a courier application from scratch using Flutter.
- Refactored legacy code in existing doctor and patient applications, improving code quality and maintainability.

PROJECTS

plate_core — Open-Source Multi-Language License Plate Ecosystem

Package: pub.dev/packages/plate_core | GitHub: github.com/ArAd1Beyranvand/plate_core | Live Demo: plate.arad80.ir

- Built and maintain an open-source license plate component ecosystem covering all countries, with country-specific plate designs, models, validation, and input/display functionality.
- Ported the original Flutter/Dart implementation to TypeScript, Python, and Kotlin, making the same functionality available across four programming languages.
- Developed an interactive Flutter web gallery that runs the TypeScript, Kotlin, and Python implementations in the browser, compiled to JavaScript or WebAssembly (WASM).
- Created interactive plate demos with editable plates, custom input keypads, animated transitions, and real-time validation feedback.

Shabgard — Location-Based Transit Alarm App | In Development

Stack: Flutter, Dart, BLoC, Kotlin | Platforms: Android + Web companion | Languages: Persian, English | Live: shabgard.arad80.ir

- Designing and building an offline-first Flutter app that alerts riders before their stop on the Tehran metro, using location and motion sensors.
- Implemented metro stop tracking by combining timetable data with accelerometer/gyroscope-based stop counting, and geofenced alerts for custom map points.
- Structured the project as a melos monorepo (shared routing engine, mobile app, web companion) with local data files and no backend dependency.
- Built a map and origin/destination picker on real station coordinates, with a custom Iranian-identity UI (girih patterns, calligraphy) and bilingual fa/en support.

Mathica — Maths Learning Platform | In Development

Stack: React, TypeScript, Django, Docker | Live: mathica.arad80.ir

- Interactive map of the high-school maths curriculum in Persian and English. Each lesson starts with a question.
- Built the React front end and a Django backend for accounts and saving progress.

Lingo — Research App for a Linguistics Thesis

Stack: Flutter, BLoC, CustomPainter | Live: test.arad80.ir

- Participants connect 50 Persian verbs on a canvas and label each link (synonym, antonym, ...).
- Gives each participant a PDF report, and the researcher a dashboard with CSV export.

SpotLyrics — Lyric Card Generator

Stack: Flutter, sqflite | Live: spotlyrics.arad80.ir

- Turns a lyric from Genius into a shareable image card. Runs on web, Linux and Android.

DevPilot — Deployment Tool | Personal

Stack: Flutter (Linux desktop), SSH, Nginx

- Desktop app I use to put my projects online on my own server.

EDUCATION

B.Sc. in Pure Mathematics — Sharif University of Technology 2019–2025

Relevant Coursework: Mobile Programming — Sharif University of Technology, Computer Engineering Department (18.8/20)

LANGUAGES

Persian — Native | English — B1 (Intermediate) | German — A2 (Elementary)