

Mojtaba Sajadfar

Front-End Developer & WebGIS Specialist — I turn spatial data into interfaces users genuinely enjoy working with.

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SUMMARY

Front-End Developer with six years of experience building high-performance mapping platforms, progressive web apps, and spatial-data interfaces for municipal and national programs. I integrate geographic data, customize open-source GIS libraries, and turn messy, complex datasets into products that feel clear and intuitive. Alongside production work at Saafaa, I design and ship full-stack products independently, end to end — from database architecture to the final interface.

EXPERIENCE

Front-End Developer — Saafaa

May 2020 – Present · Yazd, Iran

A knowledge-based company building WebGIS applications to gather, share, and monitor spatial data. Worked across the full product line, from national data platforms to municipal fleet and asset-management systems.

- ♦ **Geotajak3** — open-source WebGIS core for organizations managing large volumes of geographic data: vector/raster layers, satellite imagery, and 3D maps, with full OGC-standard services, advanced cartography, cache-optimized rendering, a field-ready mobile GIS app, and Cartable workflow tools. Built modules including 3D Map Layers, Panorama, Cartable, Urban Accident Management, Green Space Management, and Asphalt Management. Also designed and published **geotajak-sdk**, a lightweight, framework-agnostic OpenLayers wrapper with WMS layers, live GetFeatureInfo, draw & measurement tools, and a fully theme-able UI, with ready-made React and Angular examples.
- ♦ **Accident Analysis** — maps and analyzes traffic-accident data so authorities can spot risk patterns and act on road safety, with ShapeFile, GeoTIFF, and KML import, layer version control, and full OGC (WMS/WFS/WCS/CSW) compliance, built on the Geotajak core.
- ♦ **Drilling Management** — digitizes the permit process for urban drilling and excavation, tracking operations on the map in real time to catch and prevent utility-network overlaps before they happen.
- ♦ **Fleet Management System (FMS)** — real-time GPS tracking and fleet control for Shiraz Municipality on the Traccar platform, covering live vehicle positions, driver and shift management, route reports, and smart alerts.
- ♦ **Data Catalog Platform** — national-scale hub for searching, previewing, and downloading spatial datasets published by government and organizational data providers, with direct WMS/WFS access, rich metadata, and category/tag-based filtering.

6+

YEARS IN FRONT-
END

9+

MODULES &
PLATFORMS
SHIPPED

SKILLS

FRONT END

HTML CSS Sass Bootstrap

JavaScript TypeScript Angular

Ionic Capacitor Ng-Zorro

GEOSPATIAL

OpenLayers ol-ext Cesium 3D

OGC Services WMS WFS WCS

CSW

BACK END & DATA

NestJS Prisma PostgreSQL

Redis Firebase

DELIVERY

Git Docker Jira REST APIs

MVC PWA RBAC

EDUCATION

B.Sc. Computer Software Engineering

Amirkabir University, Arak, Iran

Jan 2018 – Jan 2020

Iranzamin — Historic Iran Tourism Guide

Solo · Full-stack, start to finish

- ◆ A full-stack tourism-guide app for Iran's historic cities that I designed and built entirely on my own, front-end to back-end: a NestJS + PostgreSQL API behind a fully custom, hand-drawn interface — no default Ionic components — built around a design system inspired by Achaemenid art and ancient Iran, with lotus-inscription borders, Persepolis step patterns, rosette-shaped ratings, and iwan-arch imagery.
- ◆ Car and pedestrian route planning, an AR view for on-site exploration, place details with reviews and ratings, a light and dark home screen, and a full admin console for managing places, submissions, and comment moderation — fully bilingual, English and Persian, and backed by 32 end-to-end tests.

Built with **NestJS**, **PostgreSQL**, **AR Navigator**, **OSRM Routing**, and **Docker**.

Yooz Workforce Attendance Mobile App

A mobile HR and attendance app built end to end: two-step OTP login, live check-in dashboards, multi-step approval workflows (Cartable), payroll, and push notifications — plus an admin console for users, groups, and shifts.

Angular 20 · Ionic 8 · NestJS · Prisma · PostgreSQL · Redis · Firebase

Waqtnegar Jira Worklog Manager

A mobile-first Jira time-tracker that talks directly to the Jira REST API v2 with no backend of its own: JQL-driven task search, one-tap worklog timers, and Jalali-calendar reports in a Persian, RTL, dark-themed UI.

Angular 21 · Ionic 9 · Direct Jira REST v2 · Zoneless · Signals

Aurelia Offline Music Player

An ad-free offline music player I'm building solo: a browser-based library scanner with real ID3/MP4 tag extraction, a signal-based playback engine, and a fully custom UI.

Angular 22 · Ionic 9 · Capacitor 8 · In progress

Contacts Multi-List Contact Manager

A mobile contacts manager with multiple lists, custom cover photos and colour-coded icons, one-tap dialling, auto-formatted Iranian numbers, offline-first storage, and a fully RTL Persian UI.

Angular 20 · Ionic 8 · Capacitor 8

shamsi-datepicker npm package

A dependency-free Jalali/Gregorian date & time picker in plain TypeScript, with thin adapters for Angular, React, and vanilla JS — range selection, an optional time picker, and full RTL/Persian localization.

TypeScript · Zero deps · Angular · React · Vanilla · Jalali ⇄ Gregorian

TEACHING & COURSES

Slide-based courses I author and publish at immsr.ir/learn — 294 slides across three courses, from first HTML tag to OGC web services.

HTML, CSS & JavaScript

Beginner

123 slides

JavaScript & TypeScript

Advanced

106 slides

WebGIS, OGC & OpenLayers

Specialised workshop

65 slides