Mahdi Elmi

Full-Stack & Mobile Software Engineer

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SUMMARY

Full-stack and mobile software engineer delivering production web apps, native iOS/Android applications, AI automation pipelines, and self-hosted cloud infrastructure end-to-end. Experienced owning architecture, implementation, automated testing, and deployment across contract and enterprise teams, working effectively with modern AI-assisted engineering workflows.

EXPERIENCE

Contract Full-Stack & Mobile Engineer / Dibino

Remote · Sep 2025 – Present

- **Brand Center (Mobile App, Admin & Storefront — Production):** Solely built the native iOS/Android Expo/React Native app (multi-currency wallets, ticket purchase/refunds, artist follows, reminders, Apple/Google auth). Modernized the React/NestJS/MongoDB admin UI to shadcn/Tailwind v4, added recurring schedules & Sharp WebP pipelines, and resolved upload race conditions via atomic MongoDB updates.
- **Pilot Trax (`pilottrax.net`):** Expanded an aviation quiz prototype into a bilingual platform (Next.js, Prisma, PostgreSQL, S3) rolling out to real users, adding immutable attempt snapshots, adaptive mastery/weakness replay, paid video Academy & PDF Library, Zibal/Zarinpal subscriptions, E6B calculator, live IRIMO/NOAA weather & Iran AIS NOTAM feeds, and Playwright/unit tests.
- **Arman CNC / Snaker + Video Service:** Solely architected a machinery ingestion platform (SvelteKit, Elysia, Bun, PostgreSQL/Drizzle) with scheduled Playwright crawlers, OpenAI/Zod extraction, auction lifecycle logic, WooCommerce/Notion/Telegram/WhatsApp sync, and an async yt-dlp/FFmpeg media pipeline on Docker/Dokploy (Hetzner VPS, MinIO → S3).
- **Memory Gallery & Client Systems:** Sole implementation engineer for a private AI photo/video library (TanStack Start, self-hosted Convex, Python/FastAPI) featuring resumable uploads, multimodal Gemini search, local OpenCV (YuNet/SFace) face recognition, and offline eval suites. Also shipped a Chrome MV3 reader extension (Curation Lab) and Elysia/Drizzle business workspaces (Dot Accounting, Dot Media).

Full-Stack Developer / Poroshat Filter

Isfahan, Iran · Sep 2024 – Sep 2025

- **KPI Dashboard & Enterprise ERP:** Architected an internal Jira/GitHub performance dashboard (tRPC, React, Bun, MongoDB), cutting manual reporting by ~90%; built features across ERP modules used by Sales, Purchasing, and Production (NestJS/React 18 and Hapi.js/React 17).
- **Hardware Protocol Reverse-Engineering:** Analyzed a ZKTeco biometric device's proprietary TCP protocol via Wireshark, C#, and Python to uncover its authentication flow, then delivered the production Node.js integration.
- **Performance, Build & CI Optimization:** Cut MongoDB API response times (~40% average, up to 90% worst-case), led CRA → Rsbuild/Rspack migration, moved GitHub Actions CI to Blacksmith (~35% faster deploys), and refactored legacy notifications (~80% fewer erroneous alerts).

Freelance Full-Stack Developer / Rastak Shipping

Remote · Spring 2024

- Solely built and deployed a four-language (EN/FA/AR/RU) corporate website and custom MDX CMS (Next.js 14, TypeScript, NextAuth, S3 uploads, Nodemailer/React Email) with full RTL/LTR support and Liara hosting.

SELECTED PROJECTS

Dota Hidden Tide / Sole Developer

Personal (In Dev) · Jul 2026 – Present

- Translating provided game rules into a deterministic realtime multiplayer social-deduction platform (React 19, TanStack Start, Convex, Cloudflare Durable Objects/PartyServer, Better Auth) with versioned rule definitions, multi-tab reconnect control, and allowlisted hidden-information-safe server projections.

LimakFix / Sole Designer & Developer

Independent · Jul – Sep 2026

- Designed and shipped a bilingual Persian/English construction-materials site (`limakfix.com`) in Astro, TypeScript, Tailwind CSS v4, and Paraglide i18n with product comparison, adhesive estimator, structured JSON-LD SEO, 5-domain Cloudflare routing, and Google Search Console indexing fixes.

TECHNICAL SKILLS

Frontend & Mobile	TypeScript, JavaScript, React, Next.js, TanStack Start/Router, Astro, SvelteKit, React Native (Expo), Tailwind CSS, shadcn/ui, RTL/i18n
Backend & Data	Node.js, Bun, NestJS, Elysia, Express, Convex, PostgreSQL, MongoDB, Redis/BullMQ, Drizzle ORM, Prisma, tRPC, REST, WebSockets
AI, Media & Infra	OpenAI/LLM Extraction, Gemini Embeddings, Python/FastAPI, OpenCV, Playwright, FFmpeg/yt-dlp, Docker, Dokploy/Deepfy, S3/MinIO, Cloudflare, GitHub Actions, Vitest, AI-Assisted Engineering

EDUCATION & LANGUAGES

B.A. English–Persian Translation — Islamic Azad Univ. of Isfahan

2019 – 2024 · Persian (Native), English (C1)