

Amirali Daliri

Full-Stack Software Engineer · Systems & AI Agent Architect

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SUMMARY

High-agency full-stack systems engineer and tech bounty hunter with **5+ years of production experience** (active since April 2021), shipping high-concurrency backends, real-time media systems, multi-tenant enterprise platforms, and autonomous AI agent orchestration pipelines. Deep command across **.NET 10 (C# 14), React Native, Flutter (Dart), Go, and TypeScript/Bun**. At **Kasb Platform**, operated as solo technical lead directing an autonomous fleet of AI agents across DevOps, mobile (React Native), web, and backend while engineering ultra-lean architectures under severe infrastructure resource constraints with 99.9% uptime. At **PetaProc** (concluded April 2026), engineered high-throughput WebRTC media relays (Go/pion), distributed tracing, and LanceDB/Qdrant AI vector search.

TECHNICAL SKILLS

Languages: TypeScript, C#, Go, Dart, JavaScript, Python, SQL (PostgreSQL, SQL Server), Shell
Backend & Systems: .NET 10 / ASP.NET Core (EF Core, Kestrel), Node.js, NestJS, Elysia (Bun), Gin (Go), Microservices
Mobile & Frontend: React Native, Flutter + Riverpod (iOS, Android, Desktop), Next.js 15, SvelteKit (Svelte 5), Astro, React 19, Tailwind CSS
AI & Multi-Agent Systems: Autonomous AI Agent Orchestration, MCP (Model Context Protocol), LanceDB, Qdrant, OpenRouter, RAG Pipelines
Cloud & DevOps: Docker Swarm, Linux Kernel Tuning, Cloudflare Workers & DNS, NGINX, CI/CD, Asynq (Redis queue)
Databases & Cache: PostgreSQL + Prisma, SQL Server, Redis, SQLite, MinIO, AWS S3
Observability & Testing: OpenTelemetry (OTLP/gRPC), Sentry, Serilog + Grafana Loki, Jest, Vitest, Playwright

WORK EXPERIENCE

Kasb Platform — Lead Full-Stack & Systems Infrastructure Engineer Tehran, Iran · 2025 – Present

.NET 10 · C# 14 · ASP.NET Core · EF Core · React Native · AI Agent Fleet · Docker Swarm · Linux · Syncfusion

- Operated as solo technical lead and engineering force multiplier, managing an autonomous fleet of specialized AI agents across all technical dimensions—DevOps, cross-platform mobile (React Native), web frontend, and distributed backend—to achieve multi-engineer sprint velocity.
- Architected resilient, high-efficiency production systems under rigorous hardware and compute resource constraints; implemented resource-throttled Docker Swarm topologies, memory-efficient microservices, and aggressive caching that sustained sub-100ms p95 latencies and 99.9% uptime without infrastructure budget expansion.
- Architected core financial ledger and B2B commerce services in **.NET 10 / C# 14** with Entity Framework Core, resolving double-entry balance reconciliation discrepancies and enforcing strict transactional invariants.
- Spearheaded Linux & containerization migration from legacy Windows/IIS to containerized **Docker Swarm** clusters, establishing isolated overlay networks (kasbNet) and automated self-hosted CI runners.
- Engineered a high-fidelity headless invoice and financial document rendering engine using Syncfusion Blink runtime on Linux containers, achieving 100% font rendering parity for RTL Persian financial invoices.
- Planned and established database modernization pathways from SQL Server to PostgreSQL, introducing EF Core multi-provider abstractions and migration validation test suites.

PetaProc — Full-Stack Engineer (Real-Time Systems & AI) Tehran | London · Sep 2024 – Apr 2026

Go · Gin · Flutter (Riverpod) · WebRTC (pion) · NestJS · PostgreSQL · Redis · Elasticsearch · OpenTelemetry

- Architected a real-time voice/video backend in Go with WebRTC media relay (RTP/RTCP via pion) and WebSocket signaling; utilized Socket.io with Redis pub/sub adapter to support horizontal scaling across server instances.
- Instrumented distributed tracing with OpenTelemetry (OTLP/gRPC) and Sentry error monitoring, cutting mean time to identify production incidents by ~50%.
- Integrated async media processing with Asynq (Redis job queue) and MinIO object storage, processing media jobs with <2s queue-to-worker pickup at p95 under sustained load.
- Delivered cross-platform Flutter client (iOS/Android/Desktop) with Riverpod state management covering call UI, threaded replies, and file uploads; widget tests reached ~65% coverage.
- Maintained dual REST APIs (NestJS and Go/Gin) for collaboration platform; replaced PostgreSQL full-text search with Elasticsearch, cutting p95 search latency by ~70%.

Dorj Wallet — Back-End Developer

Tehran, Iran · Apr 2024 – Aug 2024

NestJS · TypeScript · Ethers.js · Ledger SDK · Web3 · PostgreSQL · Prisma

- Built NestJS REST APIs for cryptocurrency platform using Ethers.js for on-chain interactions: wallet connection, transaction signing, and smart contract execution.
- Integrated Ledger hardware wallet SDK from scratch, enabling secure hardware-based transaction signing for end users.

Independent Systems Engineer & Tech Bounty Hunter

Remote · Apr 2021 – Present

Full-Stack Systems · Reverse Engineering · Security & Performance Audits · Custom Automation

- Delivered 5+ years of autonomous freelance engagements and technical bounties: resolving critical production bottlenecks, auditing protocol security, and delivering custom automation tools across diverse codebases.
- Engineered end-to-end full-stack architectures and microservices for international clients with focus on self-healing reliability and minimal operational overhead.

FEATURED PROJECTS

AllCodex Ecosystem & AllKnower — *Bun, Elysia, LanceDB, OpenRouter, Next.js 15, MCP*

- Shipped AllKnower AI orchestration service on Bun/Elysia with RAG vector retrieval (LanceDB, local embeddings), multi-model LLM routing via OpenRouter, and MCP server integration; assembled AllCodex Portal with Next.js 15 App Router and SvelteKit.

AllTracker — Cross-Platform Telemetry Tracker — *Flutter, Riverpod, SQLite, Mobile SDK*

- Released a Flutter desktop and mobile habit and telemetry tracking app with system tray integration, Riverpod state management, and local offline-first SQLite storage.

AryaMehr Calendar — Zepp OS Smartwatch Engine — *TypeScript, Zepp OS Embedded SDK*

- Native Persian & Zoroastrian astronomical calendar, traditional Gahs, and solar prayer computation engine for Amazfit GTR 4 running Zepp OS.

EDUCATION

Bachelor's in Computer Engineering — Iran University of Industries, Tehran

2023 – Present

Diploma in Mathematics & Physics — Allameh Helli High School, Tehran · GPA: 17.86/20

2020 – 2023