

Amir Hossein Shekari

SENIOR FULL STACK ENGINEER

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Senior Full Stack Engineer with over 6 years of expertise in building high-concurrency **React, React Native, and Cloud-native** ecosystems. Proven track record in scaling marketplaces to 100K+ users and architecting event-driven AWS solutions for global startups. Expert in side-channel IoT communication, T3 stack monorepos, and AI-powered ingestion pipelines. Strategic technical advisor focused on engineering velocity, system stability (99.99% uptime), and delivering fluid, physics-based user experiences.

Technical Skills

Frontend & Mobile React, React Native (Expo/Bare), Next.js, TypeScript, Tailwind CSS, Reanimated, Zustand, FlashList

Backend & Cloud Node.js, PostgreSQL, Redis, Elasticsearch, AWS (Lambda, SQS, Step Functions), SST, Docker, K8s

Architecture & DX Design Systems, Turborepo, T3 Stack, ADR, Playwright E2E, CI/CD (GitHub Actions), Sentry, Grafana

Professional Experience

Mozayedegar — Online Marketplace [🔗](#)

Tehran, Iran

SENIOR SOFTWARE ENGINEER (TEAM LEAD)

Feb 2023 – Present

- Directing technical strategy for a team of 7, engineering a high-concurrency marketplace architecture that sustained **99.99% uptime** and slashed production regressions by **45%** via automated validation layers.
- Architected a **PostgreSQL to Elasticsearch** synchronization layer using the **Outbox Pattern**, reducing search query latency by **65%** and improving filter scalability.
- Designed an **AI-powered ingestion pipeline** using GPT-4 and custom ML models to normalize **5K+ listings/day**, reducing manual moderation overhead by 80%.
- Optimized **Core Web Vitals** (LCP: 4.5s → 1.2s), resulting in a **30x organic traffic growth** through SSR/ISR optimization and asset delivery tuning.
- Implemented multi-layer **Redis rate-limiting** and bot-prevention strategies on high-load endpoints, mitigating DDoS risks and scrapers.

Roombadi — Matching Platform [🔗](#)

Remote

SOFTWARE ENGINEER (MOBILE-FOCUSED FULLSTACK)

Jul 2021 – Feb 2023

- Scaled platform to **100K+ installs**; engineered a **WebSocket/Redis architecture** supporting 500+ concurrent real-time chat sessions.
- Developed a local-first sync system using **WatermelonDB**, achieving a 99.9% message delivery rate in low-connectivity regions.
- Optimized the data access layer to resolve high-concurrency bottlenecks, slashing p95 query latency by **35%** and stabilizing system performance during peak traffic spikes.
- Eliminated **70% of manual QA tasks** by implementing a comprehensive E2E suite with Maestro and automated Fastlane CI/CD pipelines.
- Built **Native Modules (Swift/Java)** for biometric verification, reducing onboarding friction and improving security compliance.

Sobh Parlar Asia — IoT Platform [🔗](#)

Tabriz, Iran

SOFTWARE ENGINEER

Jul 2019 – Jul 2021

- Engineered a zero-connection IoT provisioning protocol using **WiFi packet-length modulation**; bypassed standard handshake requirements to securely transmit credentials, reducing onboarding time by **60%**.
- Built industrial dashboards processing **1,000 MQTT messages/sec**, utilizing MobX and efficient canvas rendering for real-time telemetry.
- Collaborated on backend systems handling **millions of daily telemetry events** using PostgreSQL partitioning and NoSQL solutions.

Strategic Contract Work

Lealtech — Startup Studio

Remote (London, UK)

FOUNDING ENGINEER (CONTRACT)

2024 – 2025

- Architected a **T3-based monorepo** using tRPC and **SST (Serverless Stack)**, enabling the delivery of 3 production MVPs in record time.
- Built event-driven workflows with **AWS Step Functions** to process millions of emails, implementing exponential backoff to handle Google API limits.
- Designed **DynamoDB Single-Table** access patterns, minimizing request overhead and reducing monthly infrastructure costs by **25%**.
- Contributed a custom **Step Functions construct** to the official SST ecosystem, improving developer experience for serverless state machines.

Synaps AI — HR Automation [🔗](#)

Remote (Istanbul, Turkey)

FULLSTACK ENGINEER (CONTRACT)

2024

- Refactored SNS-triggered Lambdas to an **SQS + DLQ** system, resolving concurrency bottlenecks for **15K concurrent AI events**.
- Engineered a multi-tenant **white-label architecture** allowing enterprise clients to deploy isolated, branded HR portals in minutes.
- Instrumented **AI observability pipelines** using Langfuse to track usage and model performance, enabling iterative prompt engineering.

Education

University of Tabriz

Tabriz, Iran

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING

2017 – 2022

- ICPC Asia Regional Finalist — **Top 10** out of 300+ teams (Tehran Site, 2019)