

Mohammadali Farhad

Software Engineer

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SUMMARY

Software engineer with 9 years of experience designing and delivering production systems in healthcare, e-commerce, logistics, and SaaS. Focused on **API design**, **service integration**, **workflow automation**, and **event-driven architecture** in **Node.js** and **TypeScript**. Proven track record migrating live backends, scaling operational platforms, and leading backend delivery for small teams — with full-stack capability when the product requires it.

EXPERIENCE

Backend Tech Lead

ScreenMe · 📅 Jun 2025 – Jul 2026 · 📍 Tehran, Iran

- Increased operational throughput **7.5×** (**20 → 150** patients/biweekly cycle) by automating kit lifecycle from order ingestion through report delivery
- Owned full stack and infrastructure: backend **APIs**, workflow engine, WordPress order ingestion, automated report generation, and operational UI
- Designed five-stage pipeline: barcode assignment → sample receipt → lab submission → result ingestion → automated report + email notifications

Backend Tech Lead

BentOak Co. · 📅 Apr 2022 – Nov 2023 · Nov 2024 – May 2025 · 📍 Tehran, Iran

Owned architecture, database design, and deployment across client products and an internal AI platform (**NestJS/TypeORM**, **DDD/CQRS**).

AI Chatbot — internal platform

- Led backend architecture for **admin-configurable** AI chatbot: persona, knowledge base, website scope, and instant preview
- Built **embeddable widget** with single-line integration and live dashboard for conversation monitoring and admin replies
- Implemented analytics module extracting user intents and FAQs to auto-tune response quality over time

SarSabad — subscription delivery

- Owned complete **database schema** and **domain model** for subscription deliveries, inventory, dynamic fruit packages, and customer segmentation
- Designed **offline-resilient** packaging workflow so workshops continued without internet and synced safely on reconnection
- Implemented **polygon-based** geographic validation restricting orders to supported service areas, reducing failed deliveries

Hoopa — social-gamification

- Led backend architecture in **NestJS/TypeORM** with modular **DDD/CQRS** structure, delivering **MVP** on time for a national book fair under frequently changing requirements
- Built **child-safe content moderation** pipeline requiring admin approval for avatars and posts before publication
- Implemented nightly cron-based catalog sync from parent bookstore **APIs** and **MinIO** storage for user-generated content

Backend Developer

Elevista · 📅 Dec 2023 – Oct 2024 · 📍 Remote · London, UK

- Built backend **APIs** ingesting client-side events from embeddable analytics scripts with referral codes and **ThumbmarkJS** anonymous session fingerprinting
- Designed dual-storage architecture: **PostgreSQL** for business entities, **MongoDB** time-series for high-volume analytical events
- Integrated **Kafka** as event backbone feeding reward calculation pipelines and reporting aggregation services

Backend Developer

ThisThat · 📅 Oct 2021 – Mar 2022 · 📍 Remote · London, UK

- Migrated core backend from serverless **Firebase** Functions to a unified **Node.js** service with zero functional regression while live campaigns stayed in production
- Implemented tournament comparison engine — pair selection, vote recording, round progression — and multi-tenant brand isolation for independent campaign management
- Built centralized admin panel enabling operations and marketing teams to configure campaigns without developer involvement, reducing manual configuration by **~30%**

Fullstack Developer

HIS · 📅 Jul 2018 – Sep 2021 · 📍 Tehran, Iran

- Digitized dialysis operations across 15 centers — patient records, nurse shifts, treatment sessions, and operational forms — replacing entirely paper-based workflows
- Reduced insurance claim processing from approximately one week to one day by automating 30+ field submissions per claim with **Puppeteer** browser automation

PROJECTS

ScreenMe

End-to-end microbiome test kit workflow — WordPress order ingestion, five-stage kit processing, lab integration, automated report generation, and full infra/backend/frontend ownership.

Elevista

Event-driven creator attribution platform with embeddable tracking script, **Kafka** pipeline, **ThumbmarkJS** fingerprinting, dual-storage, and **Temporal** video-clip workflows.

SarSabad

Subscription fruit delivery with recurring cycles, offline packaging workshops, polygon regional validation, and full database/domain ownership.

Hoopa

Children's social platform with book catalog sync, gamification, moderated UGC, and **MVP** delivery for national book fair (~1,000 users, 150–200 concurrent at peak).

ThisThat

Multi-tenant SaaS where users vote between paired images in tournament rounds. Migrated live backend from **Firebase** Functions to **Node.js** with brand-level campaign management.

HIS

Comprehensive Hospital Information System for dialysis: clinical core, inventory module, accounting integration, insurance automation, and **15-center** deployment with **offline sync** and province-level reporting.

SKILLS

STACK

TypeScript, **JavaScript**, **Node.js**, **NestJS**, **Express.js**, **REST API Design**, **TypeORM**, **LangChain**, **PostgreSQL**, **MongoDB**, **Redis**

PLATFORM

Kafka, **Temporal**, **Docker**, **GitLab CI/CD**, **MinIO**

DESIGN

System Design, **DDD / CQRS**, Event-driven Architecture, Technical Leadership

TOOLS

Angular, Next.js, Git, Puppeteer

EDUCATION

Master of Science

Computer Science / Software Engineering · Islamic Azad University, Science and Research Branch · 2017–2019

Bachelor of Science

Computer Science / Software Engineering · Islamic Azad University, South Tehran Branch · 2013–2017

HIGHLIGHTS

7.5× lab throughput (20 → 150 patients/cycle) · ScreenMe **workflow automation**

~85% faster insurance claims (1 week → 1 day) · HIS

15-center HIS deployment with **offline sync** and province-level reporting

Serverless → dedicated backend migration with live parity (ThisThat)

Admin-configurable AI chatbot with **embeddable widget** and live dashboard (BentOak)

Event-driven attribution with **Kafka**, **Temporal**, and dual-storage (Elevista)