Mohammad Hosein Moslemi

Senior Frontend Engineer | Next.js, React & Cyber-Security Systems Specialist Tehran, Iran (GMT+3:30) | Open to Remote Contract & Full-Time Opportunities
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Professional Summary

Senior Frontend Engineer with **7+ years of experience** specializing in high-security, data-intensive web architectures and premium commercial platforms. Currently architecting **EDR (Endpoint Detection and Response)** systems at AmanSec. Expert in **Next.js App Router**, **TypeScript**, and **Enterprise UI (MUI)**. Proven track record of delivering high-performance, GSAP-animated commercial applications and headless CMS (PayloadCMS) architectures. Passionate about performance engineering and the intersection of security and user experience.

Technical Skills

- **Frontend:** React 19, Next.js (App Router, Server Components), TypeScript, JavaScript (ES6+).
- **Enterprise UI & Security: MUI (Material UI)**, Real-time Data Streaming (WebSockets), Agent Monitoring.
- **State & Data:** PayloadCMS (Headless), Jotai, Zustand, TanStack Query, Prisma ORM, PostgreSQL.

- **Animation & Styling: GSAP (Advanced/ ScrollTrigger)**, Framer Motion, Tailwind CSS, Responsive UI/UX.
- **DevOps & Backend:** Linux Server Admin (Nginx, PM2), Docker, GitHub Actions, Node.js.
- **Optimization:** Core Web Vitals, Memory Management, Scalable Component Architecture, Technical SEO.

Work Experience

Senior Frontend Engineer — AmanSec (Cyber Security)

Tehran, Iran | June 2025 – Present

- **Lead Developer for the flagship EDR Dashboard**, a mission-critical platform for monitoring and controlling thousands of network agents across Windows and Linux environments.
- **Architected the UI using MUI (Material UI)** to ensure a high-density, professional interface for security analysts, focusing on accessibility and data hierarchy.
- **Engineered complex real-time interfaces** to visualize security threats, utilizing WebSockets for live agent "heartbeat" monitoring and status reporting.
- **Optimized dashboard performance** to handle high-frequency data updates without UI lag, utilizing advanced memoization and atomic state patterns.

Frontend Lead & Project Manager — Paresh Education

Tehran, Iran | Oct 2024 – June 2025

- **Architected an enterprise-scale LMS platform** using Next.js 15 and Prisma, supporting high-traffic educational workflows and multi-role access.
- **Led a cross-functional team** of developers and designers, conducting rigorous code reviews and defining technical roadmaps.
- **Improved Core Web Vitals**, resulting in a **40% improvement in LCP** through advanced caching and server-side rendering strategies.

Frontend Developer & Team Lead — ALIVE 8

Tehran, Iran | Jan 2024 – Oct 2024

- **Built high-conversion e-commerce storefronts** and a reusable UI library that cut feature delivery time by **30%**.
- **Managed production deployments** on Linux VPS using Nginx and PM2, maintaining a **99.9% uptime** record for client platforms.

Freelance Software Engineer — Independent

Remote | Jan 2017 – Jan 2024 *(Overlap with Education)*

- **Delivered 15+ custom web solutions**, evolving from WordPress fundamentals to modern Full-Stack architectures for diverse commercial clients.

Selected Projects

EDR Security Management System (AmanSec)

Stack: Next.js 15, **MUI**, TypeScript, WebSockets, TanStack Table

- **The Challenge:** Visualizing real-time status data from thousands of network agents without triggering global re-renders.
- **The Solution:** Implemented **Atomic State Management** with **Jotai** to isolate agent status updates, coupled with **TanStack Table's virtualization** to render 1,000+ rows at 60fps.
- **Key Feature:** Designed a "Command & Control" interface using MUI for complex nested data structures, allowing analysts to execute remote scripts on infected endpoints.

Full-Stack Beauty Clinic & Headless Architecture

Stack: Next.js, **PayloadCMS**, **GSAP (ScrollTrigger)**, PostgreSQL

- **The Challenge:** Creating a luxury brand experience with complex animations while maintaining perfect SEO and content flexibility.
- **The Solution:** Decoupled content using **PayloadCMS**. Leveraged **GSAP's Timeline** features to orchestrate complex hero animations that remain performant across mobile and desktop devices.
- **Result:** Achieved a **98/100 Lighthouse Performance score** by utilizing Server Components to fetch CMS data with zero client-side JavaScript overhead for initial renders.

Boutique Retail & Hospitality Suite (Commercial Apps)

Stack: Next.js, Prisma ORM, Tailwind CSS, Framer Motion

- **Flower Shop (E-commerce):** Developed a custom shopping cart with **Optimistic UI updates**, ensuring instant interaction. Implemented advanced image optimization for high-resolution photography.
- **Cafe/Restaurant Platform:** Engineered a mobile-first digital menu and reservation engine. Focused on **Touch-Target optimization** and WCAG accessibility for fast-paced hospitality environments.

Education

Diploma in Information Technology Shahid Beheshti Technical and Vocational School — Tehran | Graduated: 2024

Languages & Interests

- **English:** Professional Working Proficiency (Technical documentation & communication)

- **Persian:** Native
- **Passions:** Performance Engineering, **GSAP** Animation Timelines, and Cyber-Security UI design.