

Komeil Mehranfar

Senior Full-Stack & Frontend Engineer (Team Lead / Personal Development Manager)

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LinkedIn | GitHub

Currently Resident in NL (HSM Visa) | Open to HSM Visa Transfer

Professional Summary

Senior Full-Stack & Frontend Engineer with **8+ years** shipping production systems on **React**, **Next.js**, **TypeScript**, and **Node.js**, including leadership as a chapter lead and technical manager. Specialist in zero-downtime platform migrations (**AngularJS** to **Next.js**), design systems consumed by multiple teams, and architecture that runs end to end — from **RSC** rendering strategy and **clean architecture** boundaries down to **SQL** models and event pipelines. Fluent in modern **AI** workflows (**LLMs**, **RAG**, **MCP**, **n8n**) and the data behind them. Open-source author with **2k+** GitHub stars.

Core Skills

FRONTEND ARCHITECTURE
React, Next.js (App Router, RSC, Server Actions, Streaming), TypeScript, SSR, SSG, ISR, Edge Runtime, Micro Frontends, Monorepos (Turborepo), PWA, i18n, Core Web Vitals, Accessibility (WCAG)

BACKEND & APIS
Node.js, Route Handlers & Server Actions, REST & GraphQL API design, Headless CMS (Strapi), PostgreSQL, SQL, BigQuery, Event pipelines & webhooks (Segment), Docker, Vercel, AWS, Google Cloud

DESIGN SYSTEMS & UI
Design Tokens, Tailwind CSS, Radix UI, shadcn/ui, CVA, Headless & polymorphic components, Storybook, Figma

AI, DATA & STATE
LLMs, RAG Systems, Prompt Engineering, MCP (Model Context Protocol), AI-assisted development (Cursor, Copilot), n8n Workflow Automation, Looker Studio, TanStack Query, Zustand, Zod

TESTING, BUILD & DELIVERY
Vitest, Playwright, React Testing Library, MSW, Jest, TDD, Vite, Turborepo, GitHub Actions, CI/CD, Sentry, Observability

LEADERSHIP & COLLABORATION
Team Leadership, Mentoring, Technical Direction, Code Review, Stakeholder Communication, Technical Documentation, Agile/Scrum

Professional Experience

Senior Full-Stack Engineer

1 year and 3 months · 05/2025 - Present

TimeChimp — *Amsterdam, Netherlands*

- Migrated a **180k-line AngularJS** app to the **Next.js** App Router across **40+** routes behind a strangler-fig proxy sharing session and auth state, shipping continuously over **9 months** with zero cutover freeze and replacing the iframe-embedded legacy module with native pages — removing a **60KB postMessage** bridge and **3** duplicate auth flows.
- Restructured **3** repos into a **Turborepo** monorepo with **12** shared packages, cutting CI builds from **14 minutes to 3.5** with task pipelines and remote caching.
- Built the **Project Planning** engine: a windowed drag-and-drop timeline that stays interactive on large assignment sets, an **RRULE**-style recurrence expander, timezone-safe dates, optimistic mutations with rollback on conflict, and capacity aggregated per resource and interval.
- Implemented vertical navigation with backward-compatible routing against the legacy AngularJS routes, plus shared layouts, warnings, and in-app banners that rendered the same on both runtimes during the cutover.
- Took a **3-month** side mission as data engineer to build the event pipeline: ingesting **14** sources including **Stripe**, **ChartMogul**, **Exact Online**, Google, and Microsoft into **Segment** and **BigQuery** through **ETL** and reverse **ETL**, modelled as bronze, silver, and gold layers, and serving reports to **Looker** and **Kubit.ai**.
- Implemented **Snowplow** product analytics across the **Visma** tech stack, giving the product team a baseline report and core usage reports in a **Looker** dashboard.
- Automated the delivery chores around the team: **CodeRabbit** for first-pass code review, **Sentry** for runtime bug triage and fixes, and **Lokalise** for continuous localisation, wired together with **n8n** workflows using **LLM** and **MCP** tool-calling nodes.

Professional Experience (continued)

Senior Full-Stack Engineer

2 years and 4 months · 01/2023 - 05/2025

iO

Amsterdam, Netherlands

- Architected the **Nextgen** commerce platform (**Lyreco**) on **Next.js 14** App Router and **React Server Components**, with **clean architecture** use-case layers independent of the framework — cutting unit-test runtime from **90s to 8s** by keeping rendering out of business-rule tests.
- Set rendering strategy per route — static, **ISR** with cache tags, dynamic — cutting **TTFB** on catalogue pages from **820ms to 170ms** and origin requests by **78%**, and moved auth, locale resolution, and experiment bucketing into **Edge middleware**, removing a **120ms** origin round trip per request.
- Moved data fetching into **React Server Components**, removing **165KB** of client **JavaScript** and cutting time-to-interactive from **4.1s to 1.5s**; raised **Lighthouse** performance from **61 to 96** — **LCP 4.2s → 1.4s**, **CLS 0.24 → 0.01**, **INP 380ms → 90ms**.
- Generated the **Tailwind** theme from the same **240 design tokens Figma** consumed, and built a **60-component** library over **Radix UI** with **CVA** variants, adopted by **6** product teams and halving new-feature UI build time.
- Designed the **TanStack Query** cache layer — key hierarchy, optimistic mutations with rollback, targeted invalidation — cutting redundant requests by **60%**, and made **Zod** the single source of truth across a typed path from **PostgreSQL** through **70+ Route Handlers** and **Server Actions** to forms, deleting **~2,000** lines of hand-maintained interfaces and validators.
- Built the test pyramid on **Vitest**, **RTL**, and **MSW** with **900+** unit tests at **94%** coverage and **Playwright** E2E sharded **6** ways to run in **4 minutes**, took the product to **WCAG 2.1 AA** by clearing **340** axe violations to zero with CI assertions, and cut mean time to detect from days to under **15 minutes** with **Sentry**.

Senior Full-Stack Engineer

3 years · 12/2019 - 12/2022

Idekavan Group

Tehran, Iran

- Took **Behtarino.com** from Google PageSpeed **27 to 94** on **Next.js**: moved the marketplace onto **ISR**, split bundles per route, optimised images and fonts, and added a service-worker **PWA** shell.
- Architected **vitrin.me** as a package-based **monorepo** — shared UI, **GraphQL** client, and codegen'd types as independent packages — over a **Strapi** headless CMS whose schema drove the storefront renderer.
- Designed the **GraphQL** schema and the product, variant, and cart data model after **Shopify**'s Storefront API, fixing N+1 resolution with batched loaders and cutting **p95** query time from **1.4s to 210ms**.
- Led the frontend chapter as **Frontend Chapter Lead** and later **Technical Manager** of a team of **5**, owning architecture review, code-review standards, and performance budgets.

Frontend Developer

5 months · 06/2019 - 11/2019

SnappTrip

Tehran, Iran

- Engineered the **2** booking verticals (Bus and Train) in **React** and **Redux-Saga**: search, seat-map selection, and payment as **3** cancellable saga pipelines with retry, race handling, and recovery from interrupted checkouts, shipped as a **PWA** in the Snapp super-app webview from the same codebase.

Frontend Developer

1 year and 3 months · 03/2018 - 06/2019

7030.ir

Tehran, Iran

- Ran a strangler-style migration of the main website from **jQuery** and vanilla **JavaScript** to **React** and **Redux**, mounting React islands into existing pages and folding them onto a single store as each page cut over so both runtimes shipped in parallel until the jQuery surface was gone.

Open Source & Side Projects

- **sudoku-core** — zero-dependency **TypeScript** engine that generates, solves, and grades Sudoku with constraint-propagation strategies (**15k+** npm downloads a year), plus **sudoku.best**, its playable front end on **Next.js** and **PostgreSQL** with hints that explain the deduction.
- **visa-sponsors-companies-for-iranians** and its remote-work companion list — community-maintained hiring datasets, **2k+** GitHub stars and **145+** forks.

Languages

English (full professional proficiency), Persian (native or bilingual), Dutch (elementary)