Alireza Mashayekhi

Software Engineer - Frontend

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Summary

A **Software Engineer** with +7 years of experience designing and developing scalable, AI-driven, and data-intensive web platforms using **NextJS, NestJS, React, TypeScript,**. Proven success in building end-to-end systems for industries including **ecommerce, healthcare, AI automation, travel, and real estate**, with a strong focus on **data visualization, performance optimization, and user experience**. Skilled at collaborating with cross-functional teams to deliver high-impact solutions such as **AI research platforms, marketplace applications, and intelligent automation systems**. Passionate about creating tools that merge **data science, AI, and modern web technologies** to drive scientific discovery and business growth.

Work Experience

Software Engineer - Frontend (Full Time) - Feb 2026 - Present

SnappMarket (Grocery and e-commerce platform)

TypeScript, MicroFrontend, Next.js, React, Tanstack query, Orval, MaterialUI, PWA, REST API, Jest, Testing Library, Analytics, Figma, Jira, Git, Docker

- Architected and implemented a modular rewrite of the vendors dashboard, migrating legacy pages to feature modules in TypeScript and replacing SCSS with Tailwind
- Developed and Documented new design system for vendors dashboard using storybook and tailwind
- Reduced build time 90% by optimizing Docker dependency caching and runtime output and migrating from CRA to Vite and standardizing package management with pnpm and a single lockfile.
- Designed and implemented an end-to-end vendor KYC registration workflow with automated contract template generation and approval, eliminating manual steps from the vendor onboarding process.
- Developed a centralized promotion center, enabling vendors to manage campaigns, discounts, configurations, and promotional operations efficiently.
- Collaborated in Agile development environment using Jira for project management, working closely with cross-functional teams including product managers, designers, and backend engineers

Software Engineer - Frontend Chapter Lead (Full Time) - Feb 2023 - Feb 2026

Shab (Short-term house rental marketplace)

TypeScript, MicroFrontend, Next.js, React, Redux, Redux-Thunk , MaterialUI, PWA, REST API, Leaflet, Jest, Testing Library, Analytics, Node.js, Express ,Figma, Trello, Git, Docker

- Architected and implemented scalable search functionality using Leaflet, resulting in a 40% increase in user engagement and 10% search to product conversion rate measured by heap analytics.
- Optimized application performance by 20% through code splitting, image optimization, and bundle size reduction techniques.
- Provided specialized tools to monitor OKRs and analytics, Caused 20% improvement in goals alignment and performance tracking like A/B testing.
- Collaborated with designers to construct a new design system based on MaterialUI.
- Implemented progressive web application to have app-like look and performance improvements
- Mentored junior software engineers and led technical code reviews.
- Collaborated in Agile development environment using Trello for project management, working closely with cross-functional teams including product managers, designers, and backend engineers

Software Engineer - Frontend (Part Time) - Apr 2025 - Oct 2025

Qanunbio (AI-Powered Healthcare Research Platform In Netherlands)

Next.js, React, TypeScript, DuckDB, ECharts, SQL, ShadCN/UI, Agentic AI, Data Analysis, Notebook Systems

- Developed comprehensive data science platform enabling researchers to transform 5M+ clinical and genomic datasets into actionable scientific insights
- Built interactive dataset analysis and exploration tools with advanced visualization using ECharts and real-time SQL queries via DuckDB
- Implemented AI-powered chatbot system that guides researchers through data analysis workflows and provides explainable AI recommendations

- Created Jupyter-style notebook interface for collaborative research with version control, reproducible pipelines, and audit-ready reports
- Designed and developed landing pages and admin panels for the Clinical Data Studio, Agentic AI Workspace, and Genomic Data Studio products
- Integrated secure data upload, metadata preservation, and end-to-end encryption features ensuring compliance with healthcare data regulations
- Collaborated with AI engineers to implement autonomous agents that plan, execute, and explain complex scientific analyses with full traceability

Full-Stack Developer (Full Time) - Nov 2021 - Dec 2022

Qmoil (Recycling oil warehouses automation)

Next.js, React, Vite, MicroFrontend, Redux-toolkit, REST API, TailwindCSS, Ant Design, Jest, Git, Docker, CI/CD

- Architected and developed full-stack automation system from scratch to monitor and manage 4 warehouses with real-time data processing.
- Built comprehensive data visualization dashboard using Chart.js and backend APIs to reduce data analysis time by 50%.
- Configured micro frontend by editing Vite configs
- Facilitated asynchronous data fetching by using state management (Redux-toolkit) to maintain data consistency.
- Dockerized the project to ensure seamless deployment and consistency across different environments.

Full-Stack Developer (self-employed) - Apr 2022

Dekatech (AI Solutions Platform)

React, Next.js, AI Integration, REST API, WebSocket, Bootstrap, Responsive Design, Git, Github

- Developed intelligent AI-driven flows for enterprise clients, improving customer engagement by 35%
- Built real-time systems and AI communication platforms using WebSocket technology for seamless user interactions
- Integrated machine learning services to create context-aware AI assistants
- Collaborated with AI engineers to implement agentic systems that could autonomously handle complex business workflows
- Created responsive admin dashboards for managing AI bot configurations, training data, and performance analytics across multiple client deployments

Frontend Developer (Full Time) - Apr 2019 - Dec 2019

RasmSafar (Travel booking platform)

React, Next.js, TypeScript, REST API, TailwindCSS, Material UI, Git, Figma, Responsive Design

- Developed user-friendly travel booking interface with search filters and booking management system
- Implemented responsive design ensuring optimal user experience across desktop and mobile devices
- Built comprehensive admin dashboard for managing bookings, travel packages, and customer data
- Integrated payment gateways and booking confirmation systems to streamline the reservation process
- Collaborated with design team to implement pixel-perfect UI components following Figma specifications

Skills

Languages: JavaScript (ES6+), TypeScript, SQL
Web Frameworks and Libraries: Next.js, React, Vite, Redux, Redux Toolkit, React Query(Tanstack Query), Node.js, Express, NestJS, ECharts, Chart.js, ShadCN/UI, MaterialUI, TailwindCSS, Ant Design
Testing & Quality: Jest, Testing Library, Cypress, Vitest
Data & AI Technologies: DuckDB, Agentic AI, Data Visualization, AI Integration, WebSocket, GraphQL
Tools & Platforms: MicroFrontend, Docker, Git, GitLab CI/CD, LocalStack (AWS), Figma, Trello, Jira
Other: PWA Development, Performance Optimization, Responsive Design, Analytics & A/B Testing

Education

Bachelor of Electronics Engineer - Urmia university (September 2015–July 2019)