MOHAMMAD ASADI

Senior Full-Stack Engineer | Technical Project Manager | AI & SaaS Product Development

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer and Technical Project Manager with **10+ years of experience** in software development, technical leadership, and delivery of web-based products.

Experienced in building and managing **SaaS, FinTech, AI-powered, real-time communication, and enterprise management platforms**, covering the complete product lifecycle from architecture and development to QA, deployment, and production operations.

Strong background in **React.js, Next.js, Node.js, TypeScript, MERN-stack development, cloud infrastructure, and scalable frontend architecture**, combined with practical experience integrating **Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI orchestration, and structured AI workflows** into production applications.

Experienced in leading distributed development teams, translating business requirements into technical roadmaps, defining development standards, coordinating cross-functional teams, and working directly with stakeholders.

CORE EXPERTISE

Full-Stack Engineering:
React.js, Next.js, JavaScript, TypeScript, Node.js, Express.js, MongoDB, MySQL, PostgreSQL, REST APIs, GraphQL

AI & Intelligent Systems:
LLM Integration, Retrieval-Augmented Generation (RAG), Prompt Engineering, AI Workflow Design, Document Generation, Structured Data Extraction, AI Orchestration

Frontend Architecture:
Responsive Web Applications, SPA/PWA, Component Architecture, State Management, Performance Optimization, Accessibility

Cloud & DevOps:
Docker, Google Cloud Platform, Cloud Run, Cloud Storage, Nginx, CI/CD, Cloudflare, Linux

Technical & Product Leadership:
Technical Project Management, Product Architecture, Agile/Scrum, Team Leadership, Technical Roadmaps, Stakeholder Management, QA Strategy

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PROFESSIONAL EXPERIENCE

Full-Stack Web Developer / Lead Developer

Aron Groups Broker
Sep 2023 – Present

- Lead developer within a development team responsible for delivering customer-facing and internal products for a financial brokerage environment.
- Designed and developed **trading dashboards and financial interfaces**, including market-related views, account information, transaction workflows, operational metrics, and interactive data-driven components.
- Built scalable and responsive frontend applications using **React.js, Next.js, JavaScript, modern state-management solutions, and REST APIs**.
- Developed reusable dashboard components for financial data, user accounts, trading-related workflows, and internal operational systems.
- Collaborated with backend developers to integrate financial services and APIs into secure, high-performance web interfaces.
- Improved application performance by approximately **20%** through frontend architecture and optimization initiatives.
- Reduced website load times by approximately **35%** through lazy loading, code splitting, asset optimization, and rendering improvements.
- Designed and implemented a complete **WordPress advertising campaign plugin used by more than 200,000 users**.
- Implemented automated frontend testing processes, contributing to a significant reduction in reported production bugs.

- Converted UI/UX designs into responsive, accessible, and cross-browser-compatible applications.
- Collaborated with product, design, backend, QA, and business teams within Agile/Scrum development cycles.

Technical Project Manager

AI-Powered Real Estate & Construction Management Platform — Remote
2023 – Present

- Lead end-to-end development of an **AI-powered capital planning and construction document generation platform** for multi-family real estate portfolios.
- Manage distributed cross-functional teams covering **Frontend, Backend, AI, DevOps, UX/UI, and QA**.
- Define product architecture and workflows for generating structured construction documents including **Scope of Work (SOW), RFP, Bid Tabulation/Breakdown, and Notice to Proceed (NTP)**.
- Design orchestration workflows for AI-assisted document generation, including **fact extraction, clarification, validation, deterministic processing, and human review**.
- Lead development of **Retrieval-Augmented Generation (RAG)** capabilities for intelligent retrieval across historical project information and structured datasets.
- Define rule-based and AI-assisted mechanisms for controlling document structure, required information, validation, and compliance logic.
- Establish governance mechanisms for document integrity, including **versioning, validation gates, provenance, and auditability concepts**.
- Coordinate cloud infrastructure and production deployment using **Google Cloud Platform, Cloud Run, Docker, Nginx, and Cloudflare**.
- Define QA strategies, automated testing processes, release gates, reporting systems, and team accountability frameworks.
- Work directly with product and business stakeholders to translate real-estate investment and construction workflows into scalable software solutions.
- Coordinate development across web and mobile product initiatives and establish technical boundaries between product components.

Frontend Development Team Lead

Golden Face — Contract
May 2024 – Nov 2025

- Led frontend development and contributed to UI/UX design for the website, mobile-oriented application, content management dashboard, and administrative interfaces.
- Developed the application as a **Progressive Web App (PWA)** using React.js.
- Built responsive web applications and management dashboards using **React.js, SASS, Zustand, Axios, and REST APIs**.
- Converted product and UI designs into reusable and responsive frontend components.
- Collaborated with backend developers to integrate APIs and application services.
- Contributed to features combining **image analysis and machine-learning algorithms** with frontend and backend workflows.
- Coordinated frontend development standards and technical implementation across the project.

Frontend Development Instructor

Tehran Institute of Technology
Feb 2020 – Present

- Teach professional web development technologies including **JavaScript, React.js, Next.js, TypeScript, Bootstrap, Tailwind CSS, Ant Design, and WordPress**.
- Prepare students for professional software development roles through practical projects and career-oriented training.
- Created technical documentation covering React.js, Next.js, frontend architecture, coding standards, and development best practices.
- Led and coordinated teams of developers and designers working on educational and practical web projects.
- Mentored junior developers in software engineering practices, teamwork, problem-solving, and career development.
- Prepared more than **50 graduates** for frontend development roles through technical and career coaching.
- Conducted more than **15 workshops** covering development practices, productivity, and professional growth.
- Provided individual coaching and mentoring to graduate students entering professional development teams.
- Led specialized career-development programs for junior developers.

Founder & Technical Lead

Hoosh Pardazan Kavir — Wins Groups
May 2011 – Present

Founded and lead a software development group focused on **enterprise applications, SaaS platforms, AI-enabled products, communication systems, web applications, and custom software development**.

Responsible for product architecture, technical planning, development leadership, team coordination, infrastructure, QA, and delivery across multiple products.

ZoonFlow — Enterprise Work Management & Operations Platform

- Founded and lead technical development of **ZoonFlow**, an enterprise platform designed to unify project management, organizational workflows, HR, finance, approvals, and AI-assisted operations.
- Designed a **multi-tenant architecture** supporting organizations, teams, roles, projects, tasks, sprints, HR workflows, financial processes, and administrative operations.
- Designed workflow governance capabilities including **Ruleset Management, Decision Capsules, protected-action orchestration, approval workflows, and separation-of-duties controls**.
- Led development of modules covering project management, HR, attendance, leave management, expenses, vendors, purchase requests, invoices, approvals, and financial operations.
- Integrated AI-assisted capabilities for task creation, organizational insights, workflow assistance, HR support, and operational intelligence.
- Established automated QA and cross-role testing for critical enterprise workflows.
- Designed the platform for both **cloud and self-hosted enterprise deployment**.
- Manage product strategy, system architecture, engineering priorities, UX, QA, and release planning.

ZoonMeet — Real-Time Communication & Collaboration Platform

- Founded and lead development of **ZoonMeet**, a real-time communication platform for organizational messaging, meetings, and team collaboration.
- Designed application architecture using **Node.js, Express, React, Socket.IO, MySQL, Redis, and WebRTC technologies**.

- Implemented architecture for real-time messaging, user presence, signaling, and communication workflows.
- Designed infrastructure for **voice/video communication, TURN/STUN connectivity, and real-time media delivery**.
- Worked with **LiveKit and coturn** for scalable communication infrastructure.
- Designed containerized deployment infrastructure using **Docker, Nginx, SSL/TLS, Redis, and MySQL**.
- Managed networking, deployment, infrastructure configuration, domain migration, and production troubleshooting.

Software Development & Leadership

- Designed and delivered e-commerce platforms and custom web applications for multiple businesses.
- Delivered more than **15 content-driven websites and digital platforms**, including blogs, media websites, travel platforms, and technology publications.
- Managed and collaborated with distributed frontend, backend, design, and software development teams.
- Mentored junior and mid-level developers in **JavaScript, React.js, Next.js, Git workflows, software architecture, and development best practices**.
- Led technical planning, development standards, code reviews, and project delivery.
- Implemented SEO, accessibility, and performance improvements across client products.
- Coordinated software products from requirements and architecture through implementation, QA, deployment, and maintenance.

Freelance Full-Stack / Frontend Developer

Apr 2020 – Present

- Develop web applications, dashboards, websites, and custom software solutions for clients.
- Build frontend and full-stack applications using **React.js, Next.js, JavaScript, TypeScript, Node.js, and REST APIs**.
- Implement responsive interfaces based on UI/UX designs and business requirements.
- Integrate third-party APIs, backend services, authentication systems, and data-driven functionality.
- Provide technical consulting, architecture guidance, debugging, optimization, and deployment support.

TECHNICAL SKILLS

Frontend Development

JavaScript (ES6+), TypeScript, React.js, Next.js, HTML5, CSS3, SASS, Tailwind CSS, Bootstrap, Material UI, Ant Design

State Management & Data

Redux, Zustand, SWR, Axios, React Query / TanStack Query

Backend & APIs

Node.js, Express.js, RESTful APIs, GraphQL, MongoDB, MySQL, PostgreSQL

AI & Data Systems

Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Prompt Engineering, AI Workflow Design, Structured Data Extraction, AI-Assisted Document Generation

Cloud & DevOps

Docker, Google Cloud Platform (GCP), Cloud Run, Cloud Storage, Nginx, Cloudflare, Linux, CI/CD

Testing & Quality

Jest, React Testing Library, Cypress, E2E Testing, Unit Testing, Test-Driven Development, ESLint

Tools & Workflow

Git, GitHub, GitLab, Jira, Trello, Agile/Scrum, Figma

Build & Package Tools

NPM, Webpack, Vite

EDUCATION

Master of Information Technology

Imam Reza International University
2020

Bachelor of Computer Science

Payam Noor University
2019

PROFESSIONAL TRAINING

DevOps

Maktabkhooneh Academy
Mar 2025

ADDITIONAL STRENGTHS

- Technical leadership and distributed team management
- Product architecture and technical roadmap definition
- SaaS and multi-tenant application architecture
- AI-enabled product development
- Enterprise workflow design
- FinTech and trading dashboard development
- Real-time communication systems
- Performance optimization
- QA and release management
- Stakeholder communication
- Developer mentoring and technical education