Aliakbar Asghari

Senior Software Engineer | React, React Native & Applied AI

Tehran, Iran · aliakbarasghari110@gmail.com · +98 919 378 6953 · bagha.app · github.com/aliakbar76

SUMMARY

Senior software engineer shipping production products since 2016 across React, Next.js, React Native, and Node.js. Commercial delivery includes financial and commerce interfaces, POS hardware integrations, published mobile applications, and leadership of a four-person banking team. Engineering ownership runs end to end across Bagha, MagicBody, and Luna Bedroom, alongside local AI software for mission control, model routing, and RAG.

TECHNICAL SKILLS

Frontend	React, Next.js, TypeScript, progressive web apps, and admin applications.
Mobile	React Native, Android and iOS, native Android SDK bridges, Expo, and store publication.
Backend	Node.js, Express, Python, FastAPI, PostgreSQL, MongoDB, and SQLite.
Applied AI	LLM integration, CrewAI orchestration, RAG with source citations, and policy-based model routing across local Ollama models and optional cloud providers.
AI tools	Cursor, Claude, ChatGPT Codex, OpenCode, Higgsfield, Perplexity, Stitch, n8n, Grok, and Ollama.

PROFESSIONAL EXPERIENCE

Senior Frontend & React Native Engineer — Barook

Aug 2025 – Present

- Build web, PWA, and dashboard interfaces in React, Next.js, and TypeScript for credit and commerce products, including RoozNo and BarookMarket.
- Delivered a BNPL banking demo in about a month.
- Deliver the ShoppBusiness POS client, bridging barcode scanners, card readers, and printers on E800, P10, P18, and Gemini terminals through the native Android SDK.

Senior React Native Developer — Togething (Netherlands)

Dec 2023 – Oct 2024

- Delivered the Android and iOS client in React Native and TypeScript, including the habit feed, socket-based messaging, notifications, maps, and in-app purchase.
- Integrated AI chat and human/AI coaching into the React Native client.

React Native & Frontend Developer — HiWEB

Oct 2020 – Nov 2023

- Shipped the HiWEB and ParsOnline Android and iOS applications, including chat, tickets, document upload, a native traffic widget, and React and Next.js screens.
- Store distribution reports for HiWEB and ParsOnline showed 500K+ downloads.
- Led four people on Farda Bank mobile banking during this employment: task assignment, code review, architecture, delivery, and hands-on coding.

React Native Developer — Selfit Team

Dec 2018 – Oct 2020

- Developed Selfit and contributed to publication of TaekApp for the Taekwondo Federation on Android and iOS.

Mobile Application Developer — Sorooshpardaz

Oct 2016 – Oct 2018

- Built mobile features, interfaces, and API integrations for production applications.

SELECTED PROJECTS

Bagha — Life Programmer | bagha.app

- Built and deployed the public Next.js PWA, including courses, blogs, Hearts, search, Persian and English UI, and priced courses.
- Built the React admin CMS and the Express and Node.js API on MongoDB, with course purchases integrated with Zibal payment checkout.
- Built an Expo client for iOS and Android that stores refresh tokens in SecureStore.

MagicBody — Co-owner & Software Engineer | magicbody.app

- Co-own a live, revenue-generating fitness product with my gym coach. Built and run the software. It started after Togething.
- Built the installable Next.js member PWA, using MobX State Tree, for phone login, workout programs, an exercise library and search, tips, and profiles, and the React admin app for members, programs, exercises, purchases, and partner payments.
- Built the Express and MongoDB API for authentication, membership access, programs, exercises, purchases, and file uploads, with JWT sessions, Melipayamak SMS notices, and Zibal payment checkout for member upgrades.
- Maintain production on one VPS with Nginx, PM2, and MongoDB, and deploy API reloads while the site and database keep running.

Luna Bedroom | lunabedroom.com

- Built the store end to end in React, Next.js, Node.js, TypeScript, and PostgreSQL.
- Built an admin import flow so administrators can bring in Amazon and Trendyol product URLs, then review titles, prices, images, and descriptions before publication.

Bagha Labs — Independent local project

- Built the React Control Center and FastAPI services to submit missions, approve plans, track execution, and review proposals, verdicts, and workspace artifacts.
- Implemented policy-based routing across local Ollama models and optional cloud providers, and CrewAI tools that run inside a workspace-bounded path policy.
- Built document ingestion and RAG so retrieved source passages are supplied to the model, with SQLite search, Persian normalization, local bge-m3 embeddings, and source citations.
- Built a workflow completion guard so a mission is not marked complete until a written artifact is on disk, with SQLite-backed mission persistence and runtime checkpoints.

EDUCATION

Bachelor of Science, Computer Software Engineering
Islamic Azad University, Karaj Branch