

Wasiq Khan

Frontend Engineer · Technical Team Lead

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SUMMARY

Frontend engineer and Technical Team Lead with 4+ years of experience building AI products. At wAI Industries, leads Alara OS, an AI agent platform built from scratch, as product owner and tech lead, overseeing a team of engineers while personally building the frontend. Also delivered AI products for Pakistan's Federal Board of Revenue (FBR). Works mainly in Next.js, React and TypeScript.

EXPERIENCE

Technical Team Lead — wAI Industries, Islamabad

Jan 2024 – Present

Alara, AI agent platform

- Led the development of **Alara OS** from scratch as product owner and technical team lead, overseeing a team of engineers across the platform while personally building its frontend (Next.js, React, TypeScript).
- Before Alara OS, was the main frontend developer for three earlier versions of Alara: the first console (2024), the v2 agent builder (2024–26) and a complete V3 rebuild (2025–26).
- Built drag-and-drop builders for designing AI agents and multi-step workflows without code (React Flow).
- Built **The Hive**, Alara's AI chat, where answers stream in live with visible reasoning and research progress, plus file attachments and voice dictation.
- Delivered core product areas: subscriptions and billing, customers using their own AI model keys, connections to outside tools (MCP), public agents, and knowledge bases shared by team or department.
- Set up role-based permissions, a design system with 22 color themes, cloud and on-premise deployment options, and automated releases.
- Built chat widgets that businesses embed on their own websites, with hand-off from the AI bot to a human agent, photo and voice messages, and branded demos for clients.

FBR (Federal Board of Revenue) programs

- **Digital Eye**, AI cameras that count factory output for tax oversight: built the on-site dashboard for managing cameras, AI models and counting zones with live video, and set up and led the central analytics dashboard.
- **FBR AI Assistant**: public chatbot that answers taxpayers' questions and shows the official documents behind each answer, with ratings and chat export, released over 9 versions.
- Built the Digital Eye registration site for textile mills and, in two days, a command-center prototype that maps 102 factories with an AI assistant.

Platform tools

- **Alara Docs**: documentation website with 770 pages across 13 services, instant search, diagrams, an illustrated user guide and PDF export.
- **Alara Wiki**: built the frontend of a Notion-style wiki in six days, with rich-text editing, autosave, version history, comments, templates and an AI assistant.
- **Alara Space**: Excalidraw-style whiteboard built from scratch, where an AI assistant draws diagrams on request.
- **Alara Build**: desktop code editor (IDE) for Alara OS.

Leadership

- Reviewed and merged 100+ pull requests from teammates and set the team's engineering standards: coding conventions, git workflow, release notes and technical documentation.
- Introduced AI-assisted development to the team with Claude Code, including **wai-stacks**, an internal catalog of 30 reusable AI skills and 97 vetted libraries.

Frontend Intern (Jun 2022) → Junior Frontend Developer (Oct 2022) → Frontend Developer (Feb 2023)

- Main developer of a dashboard where bank branches review recorded customer conversations: search and Excel reports, an audio player with volume boost and speech highlighting, and device, branch and staff management.
- Added analytics charts, role-based permissions, in-app notifications and Docker packaging.
- Built parts of the bank-counter kiosk flow (ID card check → fingerprint → recording), including a tool for marking the camera's area of interest.

SELECTED PROJECTS

PropIQ — staff console for a housing-society operations platform

2026

- Rebuilt the frontend in Next.js 16: 21 screens (plot registry, transfers, balloting, installments, accounts, analytics, AI agent chat) in a Cmd-K app shell with a resizable AI copilot dock, cookie-based JWT auth through a Next.js proxy, role- and tenant-aware UI and ~700 Vitest test cases.

Next.js 16 · TypeScript · SWR · Vitest · Testing Library

HomeMax — furniture store for the Pakistani market

2026

- Migrated the frontend from Vite + React 18 to Next.js 16 and built 9 routes (shop, made-to-order configurator with live estimates, OTP-verified quote requests, tracking, checkout), plus a React Three Fiber product viewer and gallery hero with tiered rendering for phones.

Next.js 16 · React Three Fiber · GSAP · Vitest

Marketing websites — YOVI, Durrat Al Janadriyah, Lumenos Labs

2026

- YOVI, Riyadh creative studio: English/Arabic site with full right-to-left support, a WebGL shader that turns survey drawings into finished renders, and a scroll-driven 3D scene.
- Durrat Al Janadriyah, East Riyadh masterplan: bilingual RTL site with an interactive four-zone masterplan explorer and Arabic-safe text animation, chosen from three explored concepts.
- Lumenos Labs, AI software company: product screens built as live React components and a WebGPU hero with a custom WebGL shader fallback.

Next.js 16 · React Three Fiber · GLSL · WebGPU · GSAP · Tailwind CSS

@wasiqk14/avatars-moeen — open-source npm package

2026

- Zero-dependency TypeScript library that turns any ID into a deterministic SVG avatar (15 patterns × 10 palettes); CJS/ESM builds with tsup and tag-triggered npm releases through GitHub Actions.

SKILLS

Frontend: TypeScript, JavaScript, React 19, Next.js 16, Vite, Tailwind CSS v4, shadcn/ui, Radix UI, TipTap

State & data: Zustand, SWR, TanStack Query, React Hook Form, Zod, OpenAPI codegen, CASL (RBAC / ABAC)

Real-time & AI: Server-Sent Events, Socket.IO, WebSockets, streaming LLM chat, Vercel AI SDK tool calling, MCP

Graphics & motion: React Flow, D3, Recharts, Leaflet, Canvas 2D, Three.js / R3F, WebGL shaders, GSAP

Backend & DevOps: Docker, Node.js / Express, Python / FastAPI, Nginx, Azure Pipelines, Vercel, Electron

Testing & tooling: Vitest, Testing Library, MSW, Jest, Puppeteer, Git, Claude Code (skills, agent workflows)

Spoken languages: English, Urdu

EDUCATION

BS Computer Science — COMSATS University Islamabad

Feb 2019 – Feb 2023