

Hassan Naseer

Senior Full Stack Developer | AI Agent Engineer — React.js | Next.js | Node.js | NestJS | TypeScript

Faisalabad, Pakistan • +92 308-5383059 • ihnmalik@gmail.com • linkedin.com/in/ihnmalik • hasaantalks.com

Professional Summary

Senior Full Stack Engineer with 7+ years of experience architecting and delivering production web, mobile, and AI-powered applications using TypeScript, React.js, Next.js, React Native, Node.js, NestJS, and PostgreSQL. Experienced in leading frontend architecture for enterprise ERP systems, building autonomous AI agents, and developing offline-first, encrypted applications with custom formula engines. Specialized in AI agent engineering, offline-first architecture, JSON-driven UI rendering, and reusable component systems. Former technical instructor (Saylani Mass IT, PIAIC) with strong leadership, mentoring, and stakeholder collaboration skills. Proven track record delivering complex products in Agile, distributed, remote-first teams.

Core Skills

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS

Mobile: React Native (iOS & Android), Pixel-Perfect UI Implementation, Native API Integration

State Management: Redux Toolkit, Zustand, Jotai, Context API

Backend & Data: Node.js, NestJS, Python, Flask, PostgreSQL, Supabase, MongoDB, Firebase, Prisma, REST API Design

Specialized: AI Agents & Workflow Automation, JSON-Driven/Config-Based UI Rendering, Offline-First Architecture, Encryption, WebAssembly, SQLite

DevOps & Tools: Git, AWS, Jenkins CI/CD, Docker, Claude

Methodology: Agile, Scrum, Sprint Planning, Code Reviews, Technical Estimation

Testing: Jest, React Testing Library

Professional Experience

Senior Full Stack Developer — Aliva Tech

Feb 2020 – June 2026

- Lead frontend architecture for enterprise ERP systems built on React.js, Next.js, and TypeScript, owning technical decisions across multiple product lines.
- Lead frontend engineer on Local First Sheets, an offline-first, fully encrypted enterprise application featuring an Excel-like formula engine, local-first data persistence, and multi-layer encryption — partnering with a 3-person backend team to co-architect the system end-to-end.
- Architected and developed production AI agents using TypeScript, applying agentic design patterns, validation gates, and safety guardrails. Built autonomous customer support and intelligent scheduling agents that automate diagnosis, decision-making, task execution, and human escalation across enterprise applications.
- Built Surge, a Shopify-style MVP, end-to-end — a Next.js frontend covering both the merchant dashboard and customer-facing storefront, backed by a NestJS API handling product/collection CRUD, image-backed storefront data, and a diff-based sync system that transmits only changed data between client and server instead of full payloads.
- Built proof-of-concepts on WebAssembly and SQLite that were adopted into production for the Local First Sheets offline architecture; evaluated AWS and Next.js SSR patterns for production readiness.
- Designed and implemented an internal React virtualization library with dynamic row height measurement, significantly improving rendering performance for large, data-intensive interfaces.
- Lead and mentor a 4-person cross-functional engineering team as tech lead, running sprint planning and estimation.

Technical Instructor — MERN Stack & Mobile Development — Saylani Mass IT Training Program

2021

- Taught full-stack web and mobile development (React Native, Node.js, MongoDB) to a cohort of 300+ students, translating complex technical concepts into accessible, hands-on lessons.

React Native Developer — JinnByte

Aug 2019 – Feb 2020

- Designed and shipped multiple production React Native applications for iOS and Android with pixel-perfect UI fidelity, including GoBazaar (Dubai-based price comparison shopping app), PocketDocket (case management and social platform for lawyers), Velo (internal voting app for Lahore and Karachi teams), and Ilaya (Islamic lecture app with YouTube integration).
- Integrated REST APIs and partnered with backend teams; led client-facing design review cycles to translate feedback into iterative releases.

Rust Instructor (Part-time) — PIAIC

Sep 2019 – Jan 2020

- Taught Rust programming as part of PIAIC's IoT track to a cohort of 300+ students, reinforcing systems-level programming concepts alongside full-time mobile development work.

React Native Developer (Remote) — Both of Us

May 2019 – Jul 2019

- Worked remotely as a React Native developer, contributing to cross-platform mobile app development early in career.

Key Projects

WED Spa — AI Smart Booking Platform — In-home massage and spa booking platform built with Next.js, Supabase (PostgreSQL), and GraphQL. Customers can choose a therapist or let an AI scheduling agent automatically assign the best match based on preferences, age, notes, availability, location, and travel distance, enabling fully automated appointment scheduling. The booking agent is implemented as a standalone TypeScript package.

AI ISP Support Agent — Autonomous customer support agent built as a standalone TypeScript package that diagnoses network issues from an account ID, performs automated troubleshooting, validates every action through safety gates, checks area outages, provides real-time progress updates, and creates or escalates tickets only when human intervention is required. Implements prompt chaining, routing, validation gates, and guardrails.

Local First Sheets (Aliva Tech) — Offline-first, fully encrypted enterprise application with an Excel-like formula engine, local data persistence, and multi-layer encryption; currently in active development.

Surge — Shopify-style MVP enabling merchants to upload product images and an Excel catalog to auto-populate a live customer-facing storefront — built end-to-end with a Next.js frontend (store + dashboard) and a NestJS API with diff-based sync.

Photosurged — Self-built bulk image compression web app supporting JPG, PNG, and AVIF, with an in-browser editor for crop, resize, and rotate; recursive folder selection auto-detects nested images, and multiple export sets persist across reloads with original folder structure intact. Live at photosurged.web.app

Invoice PDF Builder — JSON-config-driven renderer converting structured invoice data into downloadable PDFs on click.

Image Compression App — React Native mobile app extending Aliva Tech's image optimization tooling to iOS and Android.

Education & Certifications

BSc Computer Science — Government College University, Faisalabad (2015–2019)

Saylani Certified Web & Mobile App Developer — Saylani Mass IT

IBM / Coursera Certifications (2025):

- Python for Data Science, AI & Development | Building Generative AI-Powered Applications with Python
- Developing AI Applications with Python and Flask | Generative AI: Prompt Engineering Basics | Introduction to AI

Leadership

President, ICAP Toastmasters Club — Leads club operations and communications, coordinates events, and cultivates a culture of confident public speaking.