

Satendra Raghav

Senior Frontend Engineer | Full Stack Developer | React.js, Next.js, TypeScript, Node.js | AI / LLM

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PROFESSIONAL SUMMARY

Frontend-focused Full Stack Developer with 5 years of experience building scalable, high-performance web and mobile applications with **React.js, Next.js, TypeScript, Redux and React Native**, backed by **Node.js** and REST APIs. Expert in component architecture, design systems, SSR/SSG, web performance (Core Web Vitals), accessibility and frontend testing. Led a low-code UI Builder platform serving 5,000+ users and built two AI products: **HyperAI**, an **AI agent chatbot on the OpenAI API** that answers policy and payout queries in seconds, and **AI UI Builder**, which generates user interfaces from text prompts and images. Experienced in leading agile teams, code reviews and CI/CD.

TECHNICAL SKILLS

Frontend: React.js, Next.js (SSR/SSG), TypeScript, JavaScript (ES6+), Redux, Redux Saga, React Hooks, Context API, HTML5, CSS3, Material-UI, Ember.js, Responsive Design, Single Page Applications (SPA)

Mobile: React Native, Expo

UI Architecture: Component Libraries, Design Systems, Accessibility (WCAG / A11y), Web Performance Optimization, Core Web Vitals, SEO, Low-Code UI Builders

Backend: Node.js, REST API Design, WebSockets, Keycloak, SSO, RBAC, Strapi CMS, MySQL, PostgreSQL, SQL

AI / LLM: OpenAI API, GPT, AI Agents, Generative AI, Large Language Models (LLM), Prompt-to-UI, Image-to-UI, Multimodal AI, Chatbot Development, Conversational AI, Prompt Engineering

Testing: Jest, React Testing Library, Enzyme, Unit Testing, Integration Testing, End-to-End Testing

Tools & Practices: Git, GitHub, CI/CD, Figma, Sketch, Postman, Agile, Scrum, Domain-Driven Design, System Design

WORK EXPERIENCE

Senior Software Engineer (Frontend-Focused Full Stack)

Act21 Software Pvt. Ltd. | Noida, India | Mar 2023 - Present

- Architected and scaled a low-code **UI Builder** platform used by **5,000+ users** (client: HDFC Bank) to build web and mobile apps from a single codebase with React.js, Next.js, React Native and Node.js.
- Built a reusable **component library and design system** (React.js, React Native, TypeScript, Material-UI) shared across web and mobile, improving component reuse and maintainability by **50%** with Domain-Driven Design.
- Improved SEO scores and page load time by **35%** using Next.js server-side rendering (SSR) and static site generation (SSG).
- Built **HyperAI**, an **AI agent chatbot** powered by the **OpenAI API (LLM)** that answers user policy and incentive payout queries in natural language (e.g. "What is my payout for January?"), returning results **within seconds from a single prompt** instead of navigating multiple pages and reports.
- Built **AI UI generation** into UI Builder: users create pages from a **text prompt** (e.g. "build a report page with a table"), an **image** or **prebuilt templates**.
- Extended HyperAI with **prompt-based automation** so users create and configure incentive schemes in natural language instead of manual UI setup.
- Designed real-time collaborative editing for the UI Builder using WebSockets and Node.js, synchronizing concurrent multi-user UI state.
- Increased frontend test coverage from **45% to 85%** with Jest and React Testing Library, reducing production bugs by **40%**.
- Led a team of **4 engineers**, owning frontend architecture decisions, code reviews, sprint planning and on-time delivery.
- Additionally owned company network security: deployed OPNsense firewall, FreeRADIUS 802.1X with internal PKI and certificate-based OpenVPN.

Software Engineer (Frontend)

Act21 Software Pvt. Ltd. | Noida, India | Oct 2022 - Feb 2023

- Built Hyperform, an enterprise incentive management system for banking clients (HDFC ERGO), using React.js, TypeScript and Redux, handling complex, large-dataset workflows.
- Implemented Keycloak authentication, Single Sign-On (SSO) and role-based access control (RBAC) to meet banking compliance requirements.
- Developed a template-based drag-and-drop page builder with dynamic API mapping, enabling non-technical users to build pages.
- Delivered proofs of concept and reusable custom controls, accelerating development velocity by **30%**.
- Built Json2Ui for Axis Bank, a low-code platform that converts JSON configuration into responsive, dynamic UIs.
- Built and published a reusable React charting library as an NPM package with fully customizable graph components.

Front End Developer

Deki Electronics | Oct 2021 - Sep 2022

- Built a responsive web application with React.js and Material-UI that reached **1,500+ active users** within 2 months of launch.
- Ran A/B tests and data-driven UX improvements, increasing user engagement by **15%**.

PROJECTS

HyperAI - AI Agent Chatbot for Policy & Payout Queries

Tech: OpenAI API, LLM, AI Agent, Prompt Engineering, Node.js, React.js, Keycloak

- Conversational AI chatbot that interprets natural language questions and returns user-specific policy and payout details within seconds, replacing multi-page navigation with one prompt.
- Secured with Keycloak SSO and role-based access so each user sees only their own policy and payout data.

AI UI Builder - Prompt-to-UI and Image-to-UI Generation

Tech: LLM, Generative AI, Multimodal AI, Prompt Engineering, React.js, Next.js, Node.js

- AI layer inside UI Builder that generates working pages from a text prompt (e.g. report page with a data table) or from a reference image.
- Supports prebuilt templates as ready-made starting points, alongside prompt-based and image-based generation.

UI Builder - Low-Code Web & Mobile App Platform

Tech: React.js, Next.js, React Native, Expo, Node.js, WebSockets

- Single-codebase platform for web and native apps with a real-time sync layer; reduced development time for consuming teams by **40%**.

Act21 Corporate Website

Tech: React.js, Next.js, Strapi CMS

- High-performance website with **45% faster** page loads and improved Core Web Vitals.

EDUCATION

Diploma in Computer-Aided Design (CAD)

Government Polytechnic Ghaziabad, Uttar Pradesh | Aug 2016 - Jul 2019

CERTIFICATIONS

- Responsive Web Design - freeCodeCamp (2022)
- JavaScript Algorithms and Data Structures - freeCodeCamp (2022)

AWARDS

- Star Performer of the Quarter (Q3 2025) - Act21 Software Pvt. Ltd., for platform stability and feature delivery
- Quarterly Excellence Award (Q4 FY23) - Act21 Software Pvt. Ltd., for code quality and team collaboration