

Mukesh Bishnoi

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Senior Frontend Engineer with 4.5+ years building scalable frontend architectures and AI-powered developer tooling (MCP, Agentic AI). Proven track record cutting integration time, improving conversion, and leading component-library adoption across multi-team orgs.

TECHNICAL SKILLS & CERTIFICATIONS

- **Technical:** JavaScript (ES6+), TypeScript, ReactJS, NextJS, Redux, Redux Toolkit, GraphQL, AEM, Tailwind CSS, HTML, CSS, SCSS, REST APIs, SSR, JWT, UI/UX Development, Microfrontend.
- **Agentic AI:** AI Agents, Agentic AI, LLMs, OpenAI API, Gemini API, Claude, Vercel AI SDK, Prompt Engineering, Model Context Protocol (MCP).
- **AI Engineering:** AI Agent Development, Agent Integration, AI-Powered UI, AI-Assisted Development.
- **Cloud & Tools:** AWS, Supabase, Git, GitHub, GitHub Copilot, Cursor, VS Code, Postman, Vercel Analytics.
- **Testing & DevOps:** Cypress, Jest, Playwright, GitHub Actions (CI/CD), Automated Testing.
- **Practices:** Agile Methodology, Responsive Design, Performance Optimization, Component-Driven Development.
- **Certification:** [AWS Cloud Practitioner](#)

EXPERIENCE

HCLSoftware – Senior Software Engineer

March 2026 - present

- Built HCL Commerce microfrontends across **12 PBCs** using React, TypeScript, GraphQL Codegen, and TanStack Query, standardizing routing, i18n, and form handling — reducing per-PBC setup time.
- Architected the React Tooling Shell, dynamically loading **10+ microfrontends** via Module Federation with shared Auth0-based auth, permissions, and notification services — cutting new-microfrontend integration time by **~45%** and eliminating duplicate auth/HTTP client code across **6 teams**.
- Built and documented a shared React component library of **50+ MUI components** with **95%+ Storybook/Playwright test coverage**, adopted across **3 products**, reducing UI development time above **~50%** and cutting frontend regressions by **~40%**.
- Built an MCP-powered AI tooling ecosystem with reusable UI components and developer tools, enabling AI agents to discover and invoke 20+ frontend capabilities dynamically; adopted across 3 product teams, cutting AI-assisted prototyping time.

Cognizant – Associate

Dec 2021 - March 2026

- **Delivered a scalable e-commerce platform** using React.js, Next.js, and RESTful APIs, driving 40% customer engagement growth and contributing to \$2M+ revenue increase within 8 months; improved application performance through code splitting, image optimization, and mobile-first UI/UX design, resulting in 50% faster load times and 35% higher mobile conversion rates.
- **Developed 50+ reusable React.js components** following atomic design principles, increasing code reusability by 60% and reducing development effort by 40% across 5 teams while ensuring responsive experiences across 20+ device configurations.
- **Implemented robust quality assurance processes** with Cypress end-to-end testing covering 100+ scenarios across 3 browsers, achieving 95% test coverage and reducing manual testing efforts by 70%.
- **Collaborated with DevOps and backend teams** to build secure API integrations and AWS-based cloud infrastructure; optimized CI/CD pipelines using GitHub Actions and AWS CloudWatch, reducing deployment times by 45%, issue resolution time by 60%, and overall system latency by 50%.

First Sense Technology – Frontend Developer Intern

July 2021 - Nov 2021

- Built a proctoring web application using facial recognition to ensure academic integrity during remote assessments, achieving 100% identification accuracy.
- Established a benchmark for facial recognition accuracy by achieving precision in multi-modal identification, setting a new standard in biometric authentication.
- Implemented a sophisticated timestamp-based data logging system, facilitating real-time monitoring and actionable post-event insights, enhancing operational efficiency and decision-making capabilities.

PERSONAL PROJECTS

Modular Component Provider (MCP) UI Server

- Designed and developed a modular UI component MCP server in a TypeScript monorepo (Turborepo) with packages for Core, CLI, Server, and UI kits.
- Built pluggable design system adapters (e.g., ShadCN) with dynamic component registry generation using the GitHub API.
- Built a custom CLI for on-demand component scaffolding, leveraging Node.js, TypeScript, Turborepo, Radix UI, ShadCN UI, and REST APIs for rapid UI prototyping.

EDUCATION

Bachelor of Technology in Electrical & Electronics Engineering, JIET, Jodhpur (2020)