

L ANIL KUMAR SINGHA

Senior Software Engineer

Bengaluru, India • anilsingha.code@gmail.com • [LinkedIn](#) • [Portfolio](#) • [GitHub](#)

SUMMARY

Senior Software Engineer with 7+ years of experience building scalable React.js, Next.js, and TypeScript applications. Expertise in component-driven architecture, reusable UI libraries, responsive design, REST API integration, and frontend performance optimization. Proven track record of owning frontend features from architecture through production and delivering accessible, high-quality web applications in Agile environments. Reduced production search latency by 70%, built enterprise component libraries, and delivered WCAG-compliant interfaces for large-scale applications.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), React Hooks, Custom Hooks, Context API, Redux Toolkit, React Query, HTML5, CSS3, Storybook, Responsive Design, Micro-Frontend Architecture

Architecture & Performance: Component-Driven Architecture, Reusable Component Libraries, Performance Optimization, Code Splitting, Lazy Loading, TanStack Virtual, WCAG Accessibility, Cross-Browser Compatibility, Figma-to-Code

Testing & Tooling: Playwright, Jest, React Testing Library (RTL), Vitest, Webpack, Node.js, npm, Git, GitLab CI/CD, Jenkins, Docker, Claude Code

Backend & Data: REST APIs, GraphQL, Apollo Client, Express.js, PostgreSQL, Prisma, MongoDB

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Nichi-In Software Solutions Pvt Ltd

Jul 2024 – Present

- Designed, developed, and delivered an enterprise workflow and document management platform using Next.js, TypeScript, Prisma, and PostgreSQL, leveraging server-side rendering (SSR) to build scalable, high-performance web applications from architecture through production deployment.
- Designed reusable, responsive frontend components, integrated REST APIs, and drove frontend architecture decisions to deliver scalable, maintainable enterprise applications.
- Architected a Lucene-inspired enterprise search engine with PostgreSQL GIN indexes, reducing production search latency by 70% (40ms to 12ms) across 22,000+ records while delivering responsive search, filtering, and pagination.
- Developed rich document editing capabilities including OCR, Mermaid diagrams, embedded media, and extensible editor plugins, serving 196 active users across 21,000+ processed records.
- Designed and implemented a Playwright end-to-end automation framework with reusable fixtures and GitLab CI/CD quality gates, executing 352 tests in under 2 minutes across 8 parallel workers while eliminating flaky retries.
- Led the migration from Jest to Vitest, improving test maintainability, execution speed, and developer productivity while accelerating Agile delivery.

Senior Software Engineer | Refixd Technologies Pvt Ltd

May 2019 – Jul 2024

Client Engagements: eGovernment Foundation, Iptor, Pivotate

- Designed and published 10+ reusable React components, Custom Hooks, and Storybook-documented UI libraries as npm packages within a Micro-Frontend Architecture, improving development speed, maintainability, and UI consistency across multiple enterprise applications.
- Built responsive, accessible, and cross-browser compatible React applications using JavaScript (ES6+), Redux Toolkit, Semantic HTML5, CSS3, and modern frontend best practices.
- Developed WCAG-compliant reusable components adopted across nationwide citizen-facing e-Governance platforms serving millions of users.
- Integrated REST and GraphQL APIs into React applications, collaborating with backend teams to define efficient API contracts and deliver scalable frontend features.
- Optimized large-scale data tables using TanStack Virtual, significantly improving rendering performance and user experience for high-volume datasets.
- Built interactive dashboards using Recharts and geographic visualizations with react-simple-maps and TopoJSON to present large-scale governance data.
- Integrated the SBI ePay payment gateway into the Madhya Pradesh Jal Jeevan Mission platform, implementing secure payment, transaction status, and reconciliation workflows.
- Provided technical leadership through code reviews, design discussions, and mentoring junior engineers across multiple project teams.

OPEN-SOURCE CONTRIBUTIONS

[Npmx.dev](#) | Vue 3, Nuxt 4, TypeScript, Vitest, Algolia | 3.5K+ GitHub stars

- Submitted [four pull requests](#) to npm.dev, with three merged following maintainer review and one currently under review, covering search relevance, asynchronous state handling, TypeScript detection, and large-file UX.
- Fixed an asynchronous search race condition caused by preference hydration, preserving Algolia results during initial loading, and added Vitest regression coverage using Nuxt Test Utils.
- Improved Algolia search relevance by prioritizing exact package-name matches while preventing duplicate results (merged).
- Contributed additional fixes across the Nuxt stack, including TypeScript declaration detection in a server API and a Vue fallback experience for oversized package files.

EDUCATION

Master of Computer Applications

Assam Don Bosco University | 2019