

SHASHIDHAR SANGEPU

Frontend Developer | React.js | Next.js | MERN Stack

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PROFESSIONAL SUMMARY

Frontend Developer with strong expertise in **React.js**, **Next.js**, and the **MERN stack (MongoDB, Express.js, React.js, Node.js)**. Proficient in **JavaScript** and **TypeScript** with hands-on experience building scalable, responsive, and high-performance web applications. Skilled in REST API integration, UI development, and state management using **Redux** and **React Query**. Improved application performance and reduced bundle size by 25% through optimized architecture and reusable components. Experienced in version control using Git and familiar with build tools such as Webpack and Gulp. Known for clean code practices, debugging skills, and delivering efficient solutions in fast-paced environments.

TECHNICAL SKILLS & KEY ACCOMPLISHMENTS

- **Frontend Development Skills:** React.js | Next.js | JavaScript (ES6+) | TypeScript | HTML5 | CSS3 | SASS | Tailwind CSS | Ant Design | Context API | Redux | React Hooks | Custom Hooks | TanStack Query (React Query) | Zod | ZSA | Responsive UI | Component Architecture
 - **Backend Development:** Node.js | Express.js | REST API Design | Authentication (JWT, Bcrypt) | Role-Based Access Control (RBAC) | Nodemailer | Puppeteer | WebSockets | SignalR | API Performance Optimization
 - **Databases:** MongoDB | Redis | MySQL
 - **Programming & Design:** Data Structures | Design Patterns | Agile Development (Scrum) | JSON | HTTP Protocols
 - **Developer Tools:** Git | GitHub | VS Code | Jira | Webpack | Babel | NPM | Yarn | Parcel | Vite | Azure
 - **Testing & Code Quality:** Jest | React Testing Library | ESLint | Prettier | Unit Testing | Debugging | Biome | lefthook
 - **Cloud & Deployment:** AWS | Server Deployments | CI/CD Familiarity
 - **Web Design & Other Skills:** PSD to HTML | Responsive Layouts | Figma Collaboration | Cross-Browser Compatibility | UI/UX Principles
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- Contributed to the development of a **full-scale Inspection Management System**, implementing **live tracking**, **geofencing**, **Google Maps API overlays**, **reusable UI library creation**, and **real-time WebSocket notifications** to enhance field inspection workflows.
 - Contributed to the development of the **Municipality Services System** by building **dynamic form-driven workflows**, implementing **Redis caching**, and integrating **Puppeteer** for automated certificate generation, improving system performance and reducing manual effort.
 - Built over 50+ REST APIs and optimized backend latency by 30% across multiple modules.
 - Achieved **85%+ unit test coverage** for core React components including forms, tables, and authentication flows.
 - Developed **10+ reusable UI components** adopted across **6+ modules**, reducing bugs and code redundancy by **30%**.

WORK EXPERIENCE

MERN STACK DEVELOPER | Cagen Technologies (06/2024) – Present

Project: Inspection Management System (Intertec Systems)

Role: Frontend Developer (Next.js + React.js)

Tech Stack: Next.js, React.js, TypeScript, Ant Design, Context API, Redux, Google Maps API, SignalR WebSocket, Axios, Day.js, Jest, React Testing Library, i18n, AmCharts

- Developed a **scalable inspection management platform** with dynamic workflows, improving field inspection efficiency and UI responsiveness.
- Architected the **Next.js + TypeScript** frontend, optimizing rendering and reducing load times, resulting in improved performance and better user navigation.
- Implemented **Context API-based authentication**, protected routes, and session handling, enhancing security and reducing auth-related issues.
- Built a **dynamic form engine** capable of rendering multiple field types (input, select, checkbox, date) with validations, reducing repetitive code by **40%**.
- Integrated **Google Maps API** with polygon overlays and live inspector tracking, increasing regional planning accuracy by **60%**.
- Created reusable table components with **dynamic drawers**, improving data management and reducing UI redundancy by **30%**.
- Implemented **real-time notifications** using SignalR WebSockets, enabling instant updates with robust error recovery and reconnection logic.
- Delivered **multi-language support** using i18n, improving accessibility across multiple regions.
- Achieved **85%+ unit test coverage** using Jest and React Testing Library for core components (forms, tables, auth, maps).
- Contributed to a shared UI library of **10+ reusable components**, adopted across **6+ modules**.

Project: RAK Municipality Services (Intertec Systems)

Role: MERN Developer (Full-Stack)

Tech Stack: React.js, Node.js, Express.js, MongoDB, Ant Design, Redux, TanStack Query (React Query), Zod, ZSA, TypeScript, Redis, Nodemailer, Puppeteer

- Developed **50+ RESTful APIs** supporting end-to-end workflows for citizen service applications with **95% reliability**.
- Implemented secure **JWT authentication**, Bcrypt hashing, and **role-based access control (RBAC)** for both citizen and admin portals.
- Architected typed backend schemas using **Zod + MongoDB**, improving code safety and reducing runtime errors.
- Implemented **Redis caching**, reducing database hits and lowering response times by **30–40%** on high-traffic endpoints.
- Automated certificate generation with **Puppeteer**, cutting manual processing time by **70%**.
- Built dynamic UI for registration workflows using **Next.js + TanStack Query**, reducing UI development time by **40%**.
- Designed a collapsible table layout for internal portals, improving admin resolution speed by **50%**.

Frontend Developer Intern (React.js) | HulkHire Technologies

02/2024 – 06/2024

Tech Stack: React.js, JavaScript, HTML5, CSS3, Bootstrap, Git, REST APIs

- Assisted in developing responsive and modular frontend components using React.js.
- Worked on API integration using Axios/Fetch, improving UI–backend data synchronization.
- Built reusable UI elements and form components to speed up feature development.
- Collaborated with senior developers on debugging, code reviews, and performance optimizations.
- Gained hands-on exposure to Agile workflows, Git-based collaboration, and real-world product development.

EDUCATION

BTech in Computer Science

Graduation Year (2023)

Vignana Bharathi Engineering College, Hyderabad