

SANJAY KUMAR S R

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Work Experience

Russell Tobin Associates Staffing Solutions (Client: Morgan Stanley)

Senior Application Development Engineer

May 2025 – Sept 2025

Bengaluru, India

- Architected and delivered a scalable **Tech Events Portal** from scratch with **React, TypeScript, Tailwind CSS, and ShadCN UI**, supporting **multi-region event management** and 100+ concurrent events with a modular, extensible architecture.
- Implemented a **multi-step event creation workflow** using **React Hook Form and Zod**, enforcing schema-based validation to reduce invalid submissions and cut average event **creation time by ~20 sec/event**.
- **Owned end-to-end development** of UI components and **client-side data layer** using **TanStack Query** (staleTime, background refetching, lazy loading), ensuring **clean API contracts, reliable data flows, and high availability**, improving feature delivery speed by ~20%.
- Designed and optimized a **calendar-based event view and filtering system**, optimizing **rendering, memoization, and data handling** to improve **page interaction responsiveness by 25%**.

Unisys India Private Limited

Application Development Engineer

Jun 2023 – Apr 2025

Bengaluru, India

- Engineered a real-time **Airline Retailing Platform UI (IATA Order View RS v21.3.4)** using **React and TypeScript**, efficiently rendering large datasets and managing state with **Redux Toolkit** for smooth, responsive performance.
- Integrated frontend applications with **REST APIs**, ensuring efficient data fetching, synchronized state, and type-safe responses using **TypeScript**, reducing perceived API latency by 20% through caching.
- Built an **AI-Powered Conversational Chat UI** using **Next.js, Vercel useChat AI SDK, and Material UI**, supporting 1K+ daily conversations and reducing response latency by 2 seconds with caching and retry strategies.
- Integrated **Single Sign-On (SSO) with Microsoft Entra** for secure Chat UI login and enhancing **SEO, page load performance, and Core Web Vitals**, increasing Lighthouse performance scores from 78 to 90.
- Developed an internal React-based **Unisys Component Library** as an **npm package** with 75+ WCAG 2.0-compliant components, improving UI consistency, accessibility, and showcased all components, properties, and usage in **Storybook** with documentation and implementation guides.
- Delivered **production-ready UI features**, authored **unit tests with Jest and React Testing Library** achieving **85–90% test coverage**, ensured consistent code quality with **ESLint and Prettier**, and deployed applications using **Docker and CI/CD pipelines**.
- **Mentored junior engineers** on React best practices, and accessibility, conducting structured peer code reviews that strengthened code consistency and **reduced review cycles and rework by 15–20%**.

Harlalka Services India Private Limited (Client: VMware)

Frontend Developer

Oct 2021 – Jun 2023

Bengaluru, India

- Developed and maintained **VMware CSP Marketplace UI** with **React**, creating reusable and responsive components that improved component re-usability by ~85% and delivering fully responsive layouts.
- **Migrated 7 legacy class components to functional components** using Hooks, improving performance, maintainability, and adherence to coding standards.
- Enhanced **accessibility (WCAG 2.0 AA)** from **50% to 90%**, resolving **100+ ARIA and contrast issues** and performing **NVDA screen reader testing** to improve usability.
- Fixed **35+ improvements in publisher modules**, while implementing comprehensive **unit tests (85–100% coverage)**, debugging, and peer code reviews, increasing stability and maintainability while following **Agile and SDLC best practices**.

Education

T John Institute of Technology

Bachelor of Engineering (B.E) — Computer Science

2016 – 2020

Bengaluru, India

Projects

Chatuuu — Next.js, TypeScript, ShadCN UI, AI SDK Elements, Google Generative AI — chatuuu-ai.vercel.app
Chatuuu is a full-stack AI chat application that enables real-time conversations and intelligent image understanding, delivering fast, smooth, and responsive user interactions through streamed AI responses.

TravelGenie.AI — React.js, TypeScript, Material UI, Gemini 2.5 Flash AI — travel-genie-ai-gem.vercel.app
TravelGenie.AI is a smart travel planning platform that generates personalized, optimized itineraries with curated activities and real-time recommendations based on user preferences.

Technical Skills

Languages: JavaScript (ES6+), TypeScript

Frontend: React.js, Next.js, HTML5, CSS3

State Management: Redux Toolkit, Context API, TanStack Query

UI Libraries & Styling: ShadCN UI, Tailwind CSS, Material UI, Styled Components, SCSS

Accessibility & Performance: WCAG 2.0, NVDA, Lazy Loading, Code Splitting, Web Vitals

Testing: Jest, React Testing Library, Storybook, TDD

Tools: Webpack, Vite, ESLint, Prettier, Docker, NGINX, CI/CD, Figma

Version Control & Workflow: Git, GitHub, Bitbucket, NPM, Yarn, Agile