

Nagendra Babu Sadu

Frontend Engineer | React.js, TypeScript, Next.js | Building Scalable UI Systems

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SUMMARY:

Frontend Developer with 3.6 years of hands-on experience in React, JavaScript, TypeScript, Redux, and Material UI. Expertise in building scalable, high-performance web applications, optimizing UI architectures, and implementing responsive and accessible designs. Experienced in solving complex UI challenges, optimizing web application performance, and staying current with emerging web technologies. Worked closely with Design, Product, and QA teams in agile environments.

TECHNICAL SKILLS:

Frameworks and Libraries: **React.js, Redux, Tailwind, Material UI, Yup, Shadcn UI, React Query, React Testing Library, Jest, Socket.io, OAuth, Next.js, Node.js, MongoDB.**

Languages: **JavaScript, TypeScript, HTML5, CSS3.**

Version Control & Cloud Services: **Git, GitHub, CI/CD (Vercel)**

EXPERIENCE: CAPGEMINI

PROJECT 1: EMPLOYEE ONBOARDING PORTAL

Sept 2023 - May 2025

Description: The Employee Onboarding Portal is a scalable, high-performance web application designed to streamline the onboarding process for new hires. It offers a seamless user experience for employees while enabling HR teams to manage onboarding workflows efficiently and reduce manual efforts. The platform ensures security, performance optimization, and real-time updates to enhance user engagement.

Roles & Responsibilities:

- Built a React app that improved onboarding speed by 40% and reduced manual HR tasks by 60% using modular and maintainable component architecture, improving code reusability and maintainability.
- Implemented TypeScript with **static typing, interfaces, and enums** to enhance type safety, reducing runtime errors and improving developer efficiency.
- Utilized React Hooks (**useState, useEffect, useReducer, useMemo, useCallback, useContext, useRef**) to optimize component lifecycle management and minimize unnecessary re-renders.
- Integrated **Redux Toolkit** for global state management, ensuring efficient data flow and maintaining application state across different modules.
- Implemented API response caching with **React Query**, reducing redundant network requests and optimizing data fetching performance.
- Managed authentication and authorization using **JWT-based token** authentication with access and refresh tokens, ensuring secure user sessions.
- Optimized performance using memoization techniques (**useMemo & useCallback**), preventing unnecessary recomputations and boosting rendering efficiency.
- Implemented lazy loading and code splitting (**React.lazy & Suspense**) to improve initial load time and optimize bundle size.

- Integrated unit testing with **Jest & React Testing Library**, ensuring component reliability, catching regressions, and improving code stability.
- Implemented real-time updates using **Socket.io**, enabling instant notifications and seamless data synchronization across users.
- Collaborated with backend developers to optimize **RESTful API** performance, implementing **debounce** and **throttle** mechanisms for efficient request handling.

PROJECT 2: PUMPERPAL

Apr 2022 - Aug 2023

Description: Pumperpal is an online platform in the USA that allows users to request septic tank cleaning services. Users can register on the application, add their locations, and submit service requests. The system includes three modules: Admin, Technician, and Customer.

Admin module: The admin can manage requests and assign service locations to specific technicians.

Technician module: Once assigned, technicians receive location details, carry out the cleaning service, and update the status.

Customer module: Customers can track their service requests, and an invoice is generated for the service after completion.

The platform ensures seamless coordination between users, technicians, and administrators for efficient service delivery.

Roles & Responsibilities:

- Designed & developed **React, JavaScript, HTML5, and Bootstrap** that meet accessibility and web browser standards for websites.
- Collaborated with the Project Manager to gather and analyze requirements, ensuring clear project objectives and successful feature implementation.
- Assessed and estimated task complexity and effort within project timelines, optimizing resource allocation and delivery schedules.
- Managed codebase changes using version control tools like **Git**, ensuring code integrity, team collaboration, and seamless feature integration.

Other Experiences:

Recruiter: TechDev IT Solutions/Tekinsta

I was a recruiter from January 2021 to October 2021 at TechDev IT Solutions in Hyderabad.

Trainer: Institute of Language Management

I worked as a Trainer from December 2018 to March 2020 at ILM, Bengaluru, Karnataka.

CERTIFICATES:

- **Agile Software Development Certification** – *University of Minnesota*, October 2024
- **Coursera Certifications**

EDUCATION:

M.Tech | VLSI - ES | Mallareddy Institute of Technology | 2015-2017