MADHU MUDDALA

Frontend Developer

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Summary

Frontend Developer with **3+ years** of experience building scalable, high- performance web applications using **React.js, JavaScript (ES6+), HTML5, CSS3, and Redux**. Proven ability to develop responsive, accessible user interfaces, implement reusable component architectures, and integrate **RESTful APIs**. Skilled in **performance optimization**, **cross-browser compatibility**, and Agile development. Passionate about delivering seamless **user experiences** in fast-paced environments.

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3
Frontend Frameworks & State Management: React, Redux, Context API, React Hooks
Styling & UI Libraries: Tailwind CSS, SCSS (Sass), Material UI, Responsive & Mobile-First Design
APIs & Authentication: RESTful APIs, JWT Authentication, Fetch API
Testing: Jest, React Testing Library, Unit & Integration Testing
Developer Tools: Git, GitHub, GitLab, VS Code, Chrome DevTools, Postman
Methodologies & Practices: Agile / Scrum, CI/CD (GitLab CI), Cross-Browser Compatibility, Web Performance Optimization (Lighthouse, Bundle Analysis)

Work Experience

NV Data Systems Private Limited	Bengaluru, India
Frontend Developer	Aug 2022 – Present

- Engineered **25+ reusable React components** using TypeScript and Material UI, **reducing UI development time by 30%** and ensuring **100% design system consistency** across enterprise applications
- Optimized application performance by **implementing code-splitting, lazy loading, and memoization techniques**, cutting Largest Contentful Paint (LCP) by 40% and **improving Lighthouse scores to 90+**
- Implemented real-time validation, progressive disclosure, and contextual error handling for complex multi-step forms, improving user guidance and **reducing support tickets by 35%**
- Enhanced perceived **performance in low-bandwidth** regions through debouncing, caching, and parallel API requests, increasing user trust and repeat usage
- Collaborated in **Agile/Scrum environment (2-week sprints) using Jira**, delivering 95% of committed features on schedule through daily standups, sprint planning, and peer code reviews
- Mentored **2 junior developers on React best practices**, component architecture, and testing strategies**, improving team velocity by 15%**
- Established and enforced coding standards and best practices across the frontend team**, reducing code review iterations by 30%** and improving code quality
- Conducted comprehensive cross-browser testing and debugging, **resolving 50+ critical UI issues** before production deployment and ensuring seamless user experience
- Implemented comprehensive **error tracking and monitoring using Sentry**, reducing mean time to resolution (MTTR) for frontend issues by 45%
- Created and maintained detailed **technical documentation for component APIs**, state management patterns, and integration workflows, reducing onboarding friction for new team members
- Implemented advanced state management solutions **using Redux Toolkit and Context API**, reducing prop drilling by 60% and improving component reusability
- Introduced and championed automated visual regression testing, **catching 40+ UI regressions before production** and maintaining brand consistency
- **Optimized bundle size by 35% through tree-shaking**, dynamic imports, and removing unused dependencies, resulting in faster initial page loads

Projects

Sign-Up & Retail Platform | Sep 2024 – FEB 2026
Tech Stack: React, Redux, Context API, TypeScript, JavaScript (ES6+), REST APIs, Material UI
Description:
Developed a fintech platform enabling seamless **cross-border money transfers and KYC-compliant user onboarding across 30+ countries**. Built with React.js and integrated 15+ RESTful APIs to deliver secure, scalable financial services with real-time FX rates and regulatory compliance.
Key Achievements:
  • Boosted onboarding **completion rate by 22% via dynamic multi-step KYC flow supporting 30+ countries** with real-time regulatory adaptation
  • Slashed **user drop-off during transfers by 18%** through intuitive UX, real-time FX previews, and robust error recovery mechanisms
  • Integrated 15+ RESTful APIs with JWT authentication, handling 10K+ daily requests with secure **data handling and error boundaries**
  • Achieved **95%+ test coverage using Jest**, resulting in zero critical bugs at production launch
  • Reduced developer **onboarding time by 40%** by building reusable component library with comprehensive documentation
  • Ensured **100% GDPR/KYC compliance** across 30+ jurisdictions through cross-functional collaboration with Legal and UX teams

Clover Tool | Nov 2022 – Sep 2024
Tech Stack: React, TypeScript, JavaScript (ES6+), REST APIs, Material UI, Jira
Description:
*Built a **high-performance React SPA with reusable Material UI component library, achieving 90+ Lighthouse scores through memoization**, lazy loading, and code splitting. Ensured WCAG compliance and 100% cross-browser compatibility while **reducing re-renders by 25%** and accelerating feature development by 30%.*
Key Achievements:
  • Reduced **unnecessary re-renders by 25% through React.Memo, useCallback, and useMemo hooks**, significantly improving application responsiveness
  • Accelerated **feature development by 30%** by building reusable UI component library with Material UI and custom CSS for consistent design
  • Reduced production **bugs by 20% through automated CI checks (GitLab CI)**, rigorous code reviews, and comprehensive testing in Agile environment
  • Optimized rendering performance using lazy loading and code splitting, **achieving 90+ Lighthous**e scores for performance and accessibility
  • Built responsive, accessible SPAs compliant with WCAG standards, **achieving 100% cross-browser compatibility** across all major browsers

Education

B.Sc. Computer Science

Osmania University, Hyderabad | 2021 | CGPA: 7.22

Languages

English, Hindi, Telugu, Kannada