

# MADHU MUDDALA

*Frontend Developer*

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## Summary

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Frontend Developer with 3.4 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

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**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

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**NV Data Systems Private Limited — Frontend Developer**

Bengaluru, India | August 2022 — Present

**Latest Project: User Sign-Up & Retail** (Sep 2024 — Present)

**Tech Stack:** React, TypeScript, JavaScript (ES6+), REST APIs, Tailwind CSS, Material UI, Jira

- User Sign-Up & KYC Onboarding Platform Key

**Responsibilities:**

- Designed and developed a dynamic, multi-step sign-up flow that adapts in real time based on user-selected country and regulatory requirements.
- Integrated third-party KYC/AML verification APIs (e.g., identity proofing, document validation) to enable secure, compliant user onboarding.
- Implemented real-time input validation, progressive disclosure, and contextual error handling to guide users through complex forms.
- Built responsive, accessible UI components using Tailwind CSS, and Material UI, ensuring consistency across devices.
- Collaborated with Product, Legal, and UX teams to translate international compliance rules into functional frontend logic.
- Documented component APIs, data flows, and validation rules to support cross-team alignment and future maintenance.

**Achievements:**

- Increased onboarding completion rate by ~22% post-launch.
- Reduced developer onboarding time by 40% through reusable component architecture and clear documentation.
- Ensured 100% alignment with GDPR and regional KYC requirements across 30+ supported countries.

- Retail Money Transfer Experience Key

**Responsibilities:**

- Developed scalable React components for transaction initiation, currency selection, fee preview, recipient verification, and final confirmation.

- Integrated RESTful backend services to fetch real-time FX rates, validate account balances, and submit transactions securely.
- Implemented robust client-side validation, secure data handling, and user-friendly error recovery mechanisms.
- Added real-time feedback (e.g., loading states, success/error toasts) to improve perceived performance and reduce confusion.
- Optimized API interactions through debouncing, caching, and parallel requests to enhance responsiveness.

#### Achievements:

- Reduced user drop-off during transfer flow by 18%.
- Achieved 95%+ test coverage for critical transaction components, contributing to zero critical bugs at launch.
- Improved perceived performance in low-bandwidth regions, increasing user trust and repeat usage.

#### Project 1: Clover Tool (Nov 2022 — Sep 2024)

*Tech Stack: React, TypeScript, JavaScript (ES6+), REST APIs, Tailwind CSS, Material UI, Jira*

#### Key responsibilities

- Developed responsive, accessible single-page applications (SPAs) using React.js, ensuring compliance with WCAG standards and cross-browser compatibility.
- Implemented efficient state management with Redux and Context API to streamline data flow across components.
- Built reusable UI components with Material UI and custom CSS for consistent design and faster development.
- Optimized rendering performance using lazy loading, code splitting, and memoization techniques.
- Integrated RESTful APIs to dynamically fetch and display real-time data, enhancing user interactivity.
- Collaborated with Agile/Scrum teams using Jira; participated in daily stand-ups, sprint planning, and code reviews.

#### Achievements

- Reduced unnecessary re-renders by 25%, improving application responsiveness.
- Accelerated feature development by 30% through a library of reusable components.
- Reduced production bugs by 20% via automated CI checks and rigorous code reviews.

#### Education

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Bachelor of Science in Computer Science

Osmania University, Hyderabad | 2018 – 2021 | CGPA: 7.22

#### Languages

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English, Hindi, Telugu, Kannada