

Madan Mohan

Frontend Engineer | React.js | TypeScript | 3+ Years

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Professional Summary

Frontend Engineer with **3+ years** delivering scalable **React.js** and **TypeScript** applications across **fintech** and **government scale** platforms. Core strengths in **performance optimization**, **reusable component architecture**, **state management** (Redux Toolkit), and **test-driven development**. Demonstrated impact: **60% rendering performance gain** on 200K+ record datasets, scaled test coverage from **0% to 90%** with Jest/RTL, **30% technical debt reduction**, and **120+ SonarQube violations** resolved in production. Experienced in **CI/CD**, **Agile/Scrum**, and cross-functional collaboration with backend and design teams.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3

Frontend: React.js, React Hooks, Context API, Next.js (App Router, SSR/SSG/ISR), Redux Toolkit, Tailwind CSS, Styled Components, AG Grid, Recharts, Responsive Design

Performance: Code Splitting, Lazy Loading, Memoization, Virtualization, Tree Shaking, Web Vitals

Backend: Node.js, Express.js, RESTful APIs, WebSockets, Axios, JWT Auth

Databases: PostgreSQL, MongoDB

Testing & Quality: Jest, React Testing Library, Unit Testing, Component Testing, Accessibility (WCAG, ARIA), SonarQube

Tools & DevOps: Git, GitHub, CI/CD, Docker, Azure Boards, Agile/Scrum, Figma, AWS (EC2, S3, IAM)

Professional Experience

Software Engineer [Onetick Technologies](#)

Noida, India • Sep 2025 – Present

- Built configurable **reusable component library** with strict TypeScript interfaces, reducing code duplication by **25%** and accelerating cross-team feature delivery.
- Implemented centralized **REST API** layer with error handling, retry mechanisms, and edge-case validation — improving release stability and reducing regression defects.
- Boosted application performance via **memoization, lazy loading, and code splitting** — cutting initial bundle size by **~30%** and reducing first-load TTI by **~25%**.
- Established **Jest + React Testing Library** from zero, growing test coverage to **80%** and cutting production defects by **35%**.
- Resolved **20+ critical SonarQube** security and quality violations, strengthening maintainability and enterprise compliance.

Associate Software Engineer [Indus Valley Partners](#)

Noida, India • Dec 2022 – Apr 2025

- Led full frontend migration from legacy stack to **React.js + TypeScript**, reducing technical debt by **30%** through modular component architecture.
- Drove **Redux Toolkit** adoption across the platform, cutting state management complexity by **40%**; scaled test coverage from **0% to 90%** using **Jest/RTL**.
- Delivered **5+ critical modules** and **15+ reusable TypeScript components**, increasing cross-application code reusability by **50%**.
- Engineered high-performance **AG Grid** implementation for **200K+ record** datasets using **virtualization** and lazy rendering — achieving **60% UI performance improvement**.
- Centralized API logic via **Axios interceptors**, eliminating **25%** of redundant API calls and enforcing consistent error handling.
- Championed **SonarQube** quality gates: resolved **100+ code smells**, reduced duplication by **35%**, and elevated overall code quality to an **A-grade maintainability rating**.
- Translated **Figma** mockups into pixel-perfect, responsive UIs; managed **100+ pull requests** on **Azure Boards** across sprint cycles.

Projects

PICS — AI Prison Voice Monitoring System

Next.js • TypeScript • Node.js • MongoDB • WebSockets • Twilio

- Architected multi-role platform (Super Admin / Admin / Prisoner) on **Next.js App Router** with **Server Components and SSR** for real-time prison call monitoring via **WebSocket** streaming and **Twilio** voice integration.
- Built **RBAC** engine with granular roles & permissions, audit logging, and Excel export (xlsx) for compliance reporting.
- Designed interactive, accessible analytics dashboards using **Recharts** with date-range filtering, JWT-secured REST API, and AWS S3 media storage backed by **MongoDB**.

Education

B.Tech Maharshi Dayanand University, Rohtak, Haryana

Aug 2017 – Jun 2021

MERN Fullstack Bootcamp Masai School, Bengaluru

Oct 2021 – Aug 2022