

HARSHAL MADGULKAR

MERN Stack Developer

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Profile Summary

MERN Stack Developer with 2+ years of experience building and scaling government-grade web applications for municipal systems, including school management, licensing workflows, and high-volume public platforms. Proven impact on reducing operational effort by up to 90% through workflow automation and system redesign.

Skills

- **Frontend:** React.js, Vite, Redux Toolkit, Redux Persist, ShadCN UI, Tailwind CSS
- **Backend:** Node.js, Express.js, MongoDB, Mongoose, JWT, Morgan, nodemailer
- **Languages:** JavaScript, TypeScript, HTML, CSS
- **Tools & Platforms:** Visual Studio Code, MongoDB Compass, Postman, Bruno, Git, EaseBuzz

Experience

Foxberry Technologies Pvt. Ltd.

Feb 2025 – Feb 2026

Solution (MERN Stack) Developer

Pune

- Scaled the SMIS platform across 250+ schools and 120+ balwadis and redesigned attendance workflows to reduce manual effort from 50 hours to 4 hours daily (92% improvement).
- Spearheaded full-stack development (MongoDB, Express, React, Node.js) for 4+ municipal applications used across multiple departments and thousands of daily users.
- Engineered a custom internal React.js platform and shared UI library to centrally manage feature visibility and component standardization across all projects.
- Key client projects include: School Management Information System (SMIS), Garden E-Ticketing Platform, Clinic Licensing & Registration System and the Environmental Status Report.

Program Warehouse Pvt. Ltd.

Jan 2024 – Feb 2025

Frontend (React) Developer

Jaipur

- Built responsive React.js/Tailwind apps from design mockups, ensuring clean, production-ready code.
- Developed responsive, interactive web apps using React.js and Tailwind CSS for live projects.
- Converted design mockups into clean, standards-compliant code, collaborating with senior developers to ensure quality.
- Implemented efficient state management with Redux and Context API, enhancing app performance.

Projects

School Management Information System (SMIS) | React.js, TypeScript, Redux, Tailwind CSS | **Live**

- Built a role-based React.js platform for municipal schools, centralizing data and enabling complex workflows for attendance, mark sheets, and staff operations with optimized state management and high-performance rendering.
- Transformed attendance processing from a centralized manual system (50 hours/day) to a teacher-driven workflow (4 hours/day), achieving 92% reduction in operational effort and eliminating dependency on data entry operators.
- Engineered a hierarchical holiday display system (global, school, role, class-level) integrated into the front-end, ensuring accurate attendance tracking and reporting across all user roles.

Garden E-Ticketing Platform | React.js, TypeScript, Redux, Node.js, Express.js, MongoDB, Mongoose | **Live**

- Developed the end-to-end ticketing logic using Node.js and Express, implementing secure RESTful endpoints for real-time QR-code generation and ticket validation.
- Architected scalable MongoDB schemas to manage high-volume visitor data and integrated secure third-party payment workflows, automating transaction transparency and eliminating manual cash handling across multiple locations.

Clinic Licensing & Registration System | React.js, TypeScript, Redux, Tailwind CSS | **Live**

- Built a role-based React.js application for clinic and pathology licensing, implementing a 4-layer administrative approval workflow (Admin, HOD, 3 Approvers) to enforce government compliance and transparency.
- Integrated payment processing, automated certificate generation, and audit trails to streamline regulatory operations and ensure traceability of all actions.

Education

Bachelor of Technology in Mechanical Engineering

July 2023

Fabtech Technical Campus College of Engineering and Research

8.83/10.00 CGPA