R PRADHYUMNA

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About Me

Full-stack Developer with hands-on experience building production-grade web applications using React, Node.js, and PostgreSQL. Experienced in developing role-based systems serving 250+ users with published research. Passionate about creating scalable, user-friendly solutions and continuously improving skills through real-world projects.

Projects

ExamSuite(Click here) **Nov 2025**
- Built exam management platform using React, Supabase, and PostgreSQL serving 250+ users across 4 administrative roles at MIT Mysore.
- Implemented role-based access control with Row-Level Security policies and automated paper submission workflow with email notifications.
- Published research paper in **IJRDET journal** (Volume 14, Issue 11, 2025) documenting system architecture and implementation.

Innovata(Click here) **May 2025**
- Developed centralized project showcase platform for 100+ students and faculty using React, React Router, and PapaParse.
- Integrated Google Sheets and Drive APIs for non-technical content management, eliminating need for code deployments.
- Implemented dynamic filtering by scheme and phase with responsive single-page application design.

Infosphere(Click here) **Oct 2025**
- Architected club management portal using React and Tailwind CSS for department's Sports, Technical, and Cultural clubs, officially adopted by ISE.
- Designed hybrid architecture using Google Sheets as CMS and Drive for storage to simplify faculty administration.
- Led technical architecture and implemented performance optimizations including compression and code splitting.

Certifications

- Node.js, Express and MongoDB — Udemy (2025)
- The Ultimate React Course — Udemy (2024)
- Web Development Bootcamp — Udemy (2023)
- Database Management System — NPTEL (Apr 2023)
- Effective Writing — NPTEL (Apr 2023)

Technical Skills

- **Frontend:** React.js, Next.js, Redux Toolkit, React Query, Tailwind CSS, Styled Components, Vite
- **Backend:** Node.js, Express.js, Supabase, PostgreSQL, RESTful APIs
- **Languages:** JavaScript, Python, C, C++, SQL, PL/pgSQL
- **Databases:** PostgreSQL, Supabase, MySQL, Row-Level Security (RLS)
- **Developer Tools:** Git, GitHub, VS Code, Postman, ESLint, Netlify
- **Core Concepts:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, AI

Education

Maharaja Institute of Technology Mysore **2022 − 2026**
B.E. in Information Science & Engineering — CGPA: 8.90 *Mysore, India*