

Sahil Tiwari

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SUMMARY

Innovative Intern with expertise in scalable frontend and backend development, focusing on web applications. Contributed to improving application load times by 25% and supported high-performance backend architecture for 1,000+ users. Aspiring to leverage MERN stack and Next.js skills to drive impactful projects and optimize application efficiency.

EXPERIENCE

Intern | Octanet

May 2024 - July 2024, Remote

- **Contributed to scalable frontend and backend development** for client projects, resulting in a 25% improvement in application load times.
- **Developed robust APIs for backend architecture**, ensuring high performance and scalability, supporting over 1,000 concurrent users.
- **Designed and developed a web application prototype**, collaborating with senior developers to implement features using React and Node.js, achieving a functional MVP within four weeks.

PROJECTS

LMS : CodePlay | Personal Project

codeplay-beige.vercel.app

- **Developed a scalable EdTech platform** using the MERN stack, simulating 1,000+ concurrent users, and integrated a secure **Razorpay** payment gateway, handling 100+ transactions with a 0% error rate.
- **Created intuitive instructor and student dashboards**, reducing course upload complexity by 40% and enabling real-time tracking of enrollment, performance, and financial data.
- **Optimized backend performance**, achieving a 25% reduction in API response time during stress testing, ensuring seamless operation under high-load conditions.

Playtube | Personal Project | MERN

play-tube-ten.vercel.app

- **Developed** a video hosting and micro-blogging platform integrating features inspired by YouTube (video uploads, multi-resolution playback, and dashboards) and Twitter (tweet creation and engagement).
- **Designed** user, subscription, and playlist management systems, enabling secure login, real-time channel statistics, and interactive functionalities such as video and tweet engagement, tested with 100+ mock users and 50+ videos.
- **Optimized** backend performance with JWT-based authentication and reduced API response time by 30%, ensuring scalability during stress testing with 1,000+ simulated requests.

HealthCare+ | Hackathon Project

master--healthcareplus12.netlify.app

- **Developed a healthcare patient management application** using **Next.js**, Appwrite, and Twilio, enabling patients to register, book, and manage appointments while administrators handle scheduling, confirmations, and cancellations. Improved appointment booking efficiency by 30%.
- **Implemented SMS notifications via Twilio**, file uploads with Appwrite, and integrated performance monitoring with Sentry, enhancing user engagement by 25% and application reliability.
- **Utilized TailwindCSS and ShadCN for responsive, reusable UI components**, deployed on Netlify, and integrated version control with GitHub, reducing development time by 20%.

EDUCATION

Bachelor of Engineering in Computer Science | Marwadi University

Rajkot, Gujarat, 2026

- Data Structures and Algorithm ; Operating Systems ; Object Oriented Programming; Computer Architecture; Discrete Mathematics ; Linear Algebra ; Calculus; Cloud Computing Essential ; Data Science Essential ; Computer Networks

SKILLS

Soft Skills: Teamwork, Communication, Project Management, Agile Methodologies

Software/Tools: Vercel, Netlify, Render, AWS, Git & GitHub, RESTful APIs, JWT Authentication ,TailwindCSS, ShadCN UI

Programming Languages: C++, MERN Stack (MongoDB, Express.js, React, Node.js), Next.js, TypeScript