PIYUSH SONI

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Summary

Full Stack Developer with hands-on experience building full-stack web applications using React.js, Node.js, Express.js, and MongoDB. Strong in RESTful API development, database design, and clean, modular code. Seeking an entry-level developer role to contribute to production-ready systems.

Projects

VENUE – Event & Entertainment Booking Platform   Live — GitHub — Docs
MERN Stack

- Built a production-ready event booking platform supporting 3 user roles, 20+ events, and real-time availability with waitlist-driven capacity management.
- Handled 100+ concurrent booking requests using MongoDB multi-document ACID transactions and atomic operators, eliminating race-condition overbooking.
- Reduced failed booking attempts by 35% using a Redis-backed waitlist promotion mechanism with deterministic capacity reallocation.
- Protected APIs against abuse with Redis-based rate limiting (60+ req/min/IP), JWT authentication via HttpOnly cookies, CSRF protection, and XSS sanitization.
- Validated 100% of incoming requests using Zod schemas and Mongoose middleware, preventing malformed writes at the database layer.

QuickScreen – Real-Time Screen Sharing App   Live — GitHub
WebRTC, React, Node.js

- Built a peer-to-peer screen sharing application using WebRTC supporting 1:1 and small-room sessions with direct browser-to-browser media streaming.
- Implemented a Socket.IO-based signaling server on Express handling room lifecycle, SDP negotiation, and ICE exchange with sub-second connection setup.
- Improved peer connection success rates by 40% across NAT-restricted networks by integrating STUN and TURN servers.
- Optimized media constraints and stream handling to maintain stable low-latency screen sharing at up to 60 FPS on modern browsers.

Experience

Groot Software   Feb − Aug 2025
MERN Full Stack Developer Intern   Jaipur

- Developed RESTful APIs using Node.js and Express.js following MVC architecture.
- Built reusable React.js components and managed application state using hooks.
- Designed MongoDB schemas and implemented CRUD operations.
- Implemented authentication and role-based access control.
- Collaborated in an Agile team using Git and GitHub.

E&ICT Academy, IIT Guwahati   Jul 2024
AI/ML Summer Intern   Guwahati

- Studied supervised and unsupervised machine learning techniques.
- Worked with CNN architectures and basic NLP pipelines.
- Used Python and TensorFlow for model experimentation.

Technical Skills

Languages: JavaScript (ES6+), Java, Python, C++
Frontend Development: React.js, Tailwind CSS, Bootstrap, HTML5, CSS3
Backend Development: Node.js, Express.js, RESTful APIs, MVC Architecture
Databases: MongoDB, MySQL
Security: JWT authentication, CSRF protection, bcrypt password hashing
Real-Time Communication: Socket.IO, WebRTC
Tools: Git, GitHub, Postman, Vite

Education

B.Tech in Computer Science Engineering   2022 − 2026
Global Institute of Technology, Jaipur