

# PIYUSH SONI

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## Summary

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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.

## Experience

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### 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.

### Learn and Build

Aug 2023

*Core Java Intern*

*Remote*

- Strengthened understanding of OOP concepts and Java collections framework.
- Practiced writing modular and maintainable Java code.

## Projects

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### VENUE – Event & Entertainment Booking Platform

Live — GitHub — Docs

*MERN Stack*

- Implemented transactional slot booking using MongoDB ACID transactions and atomic operators to safely handle 100+ concurrent booking requests.
- Designed a waitlist promotion algorithm that reallocates released capacity based on booking size and availability constraints.
- Developed RESTful APIs following MVC architecture with pagination, indexing, and role-based access control.
- Secured and documented APIs using JWT authentication with HttpOnly cookies, CSRF protection, rate limiting, and OpenAPI/Swagger.

### QuickScreen – Real-Time Screen Sharing App

Live — GitHub

*WebRTC, React, Node.js*

- Built a peer-to-peer screen sharing system using WebRTC with direct browser-to-browser media streaming.
- Implemented a Socket.IO-based signaling server on Vercel for room management, SDP negotiation, and ICE exchange.
- Integrated STUN and TURN servers to ensure reliable connectivity across NAT-restricted networks.
- Optimized media constraints and connection handling to achieve stable low-latency screen sharing at 60 FPS.

## Education

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### B.Tech in Computer Science Engineering

2022 – 2026

*Global Institute of Technology, Jaipur*

### Class X & Class XII (ICSE)

2019 – 2022

*Springfield School, Jaipur*

## Technical Skills

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**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