

PIYUSH SONI

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Summary

Full Stack Developer with hands-on experience developing full-stack web applications using React.js, Node.js, Express.js, and MongoDB. Comfortable building RESTful APIs, managing databases, and implementing clean, modular codebases. Looking for an entry-level software developer role where I can apply my skills to build production-ready systems.

Experience

Groot Software

Feb – Aug 2025

MERN Full Stack Developer Intern

Jaipur

- Developing RESTful APIs using Node.js and Express.js following MVC architecture.
- Building reusable React.js components and managing state using hooks.
- Designing MongoDB schemas and performing CRUD operations.
- Implementing authentication and role-based access control.
- Using Git and GitHub for version control and collaborative development.

IIT Guwahati

Jul 2024

AI/ML Summer Intern

Guwahati

- Learned machine learning fundamentals including supervised and unsupervised learning.
- Worked with CNN architectures and basic NLP pipelines.
- Gained hands-on experience with Python and TensorFlow.

Learn and Build

Aug 2023

Core Java Intern

Remote

- Strengthened understanding of OOP concepts such as inheritance, polymorphism, and abstraction.
- Worked with collections framework and exception handling.
- Practiced writing modular and maintainable Java code.

Projects

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

- Built a production-grade booking platform inspired by District, supporting multi-role access (Users & Organizers) with secure authentication.
- Implemented quantity-based slot booking using MongoDB ACID transactions and atomic operations to prevent race conditions and overbooking.
- Designed a fair waitlist promotion system that dynamically allocates freed capacity based on request fit instead of simple FIFO.
- Enhanced performance and security with paginated APIs, database indexing, JWT auth via HttpOnly cookies, rate limiting, and real-time updates using Socket.IO.

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

- Engineered a peer-to-peer screen sharing platform using WebRTC enabling low-latency, browser-to-browser streaming without server-side media processing.
- Designed and implemented a lightweight Socket.IO signaling server for SDP and ICE exchange, supporting late-join participants and multi-network connectivity.
- Integrated STUN/TURN servers and custom media constraints to achieve stable cross-network connections and high-quality 60 FPS screen streaming.
- Built a production-grade React + Tailwind UI with real-time room creation, join-by-code flow, and shareable links.

Education

Global Institute of Technology, Jaipur

2022 – 2026

B.Tech in Computer Science Engineering

Springfield School, Jaipur(ICSE)

2019 – 2022

Class X-XII

Technical Skills

Languages: JavaScript, Java, Python, C++

Frontend: React.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, REST APIs

Databases: MongoDB, MySQL

Tools: Git, GitHub, Postman