Gaurav Sharma

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Summary

Second-year Information Technology undergraduate seeking a remote software development internship, with project experience in React and Node.js applications, WebRTC communication, and AWS EC2 deployment using Linux, Nginx, and HTTPS.

Education

Indira Gandhi Engineering College, Sagar Expected graduation: 2029
B.Tech in Information Technology Engineering | CGPA: 7.6/10

Technical Skills

Languages: JavaScript (ES6+), TypeScript, HTML, CSS
Frontend: React, Vite, React Router, EJS, responsive CSS
Backend: Node.js, Express, REST APIs, JWT, Zod, Nodemailer
Real-Time and Messaging: Socket.IO, WebRTC, Firebase Cloud Messaging
Databases and Queues: MongoDB, Mongoose, Redis, BullMQ
Cloud and Tools: AWS EC2, AWS S3, Linux, Nginx, PM2, DNS, HTTPS/TLS, Git
Testing: Jest, Supertest

Projects

ShareIt | Real-Time Communication Platform GitHub
Node.js, Express, EJS, MongoDB, Socket.IO, WebRTC, AWS S3

- Built web pages and JSON APIs for persistent messaging, friend management, and file sharing, with Socket.IO typing indicators and online presence.
- Implemented WebRTC voice/video calls with camera switching and microphone/video controls; integrated Firebase notifications for messages and calls.
- Integrated S3 media storage, JWT authentication, and Redis-backed rate limiting; processed verification emails asynchronously with Redis and BullMQ.
- Deployed on AWS EC2 and configured the Linux server, Nginx reverse proxy, custom-domain DNS and HTTPS configuration.

Societal Platform | Civic Collaboration Application GitHub
React, TypeScript, Express, MongoDB, Zod, AWS S3, Jest/Supertest

- Built React interfaces and TypeScript REST APIs for issue reporting, admin verification, challenges, student applications, teams, solution reviews, milestones, and impact evidence.
- Implemented JWT authentication, role and ownership checks, and Zod validation; protected S3 evidence uploads with five-minute presigned URLs and image-content checks. The latest recorded backend run passed **364 tests across 29 suites**.

Connect-X | Random Video Chat GitHub | Website
Node.js, Socket.IO, WebRTC, JavaScript, HTML/CSS

- Built random video-chat matchmaking with Socket.IO rooms and WebRTC audio/video; implemented offer/answer signaling, STUN/ICE negotiation, and partner-disconnect cleanup.