

Chandan Sahoo

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[GitHub](#) | [Codeforces](#) | [CodeChef](#) | [LeetCode](#)

EDUCATION

Guru Gobind Singh Indraprastha University (GGSIPU)

Delhi, India

Bhagwan Parshuram Institute of Technology

Sep 2023 – Present

Bachelor of Technology (B.Tech.) in Information Technology — CGPA: 9.14

DAV Public School

Delhi, India

Class 12 (CBSE) — 90%

April 2022 - March 2023

DAV Public School

Delhi, India

Class 10 (CBSE) — 93.5%

April 2020 - March 2021

EXPERIENCE

Power Shutdown Request Clubbing System

Delhi, India

TATA Power-DDL

June 2026 – July 2026

- Built a graph-based request clubbing system using Disjoint Set Union (Union-Find) to consolidate shutdown requests across connected electrical zones
- Implemented an interval-overlap algorithm to cluster maintenance notifications, minimizing redundant shutdown operations
- Developed an interactive electrical network visualization for zone connectivity analysis and grouped maintenance planning

PROJECTS

Mesh ([Live Link](#)) | *Next.js, TypeScript, ConvexDB, Liveblocks, LiveKit, Turborepo*

- Built a full-stack real-time communication platform featuring threaded messaging, reactions, typing indicators, and a friend system using Next.js, Convex, LiveKit, and Turborepo
- Engineered a standalone WebSocket presence server with heartbeat validation and stale-session eviction, and replaced a custom pub/sub with Convex reactive queries for automatic diff propagation on every mutation
- Integrated LiveKit SFU for multi-participant WebRTC voice and enforced multi-tenant RBAC with server-scoped permission checks validated on every write

QuickQuill ([Live Link](#)) | *Next.js, TypeScript, TipTap Editor, Convex, Liveblocks*

- Architected a real-time collaborative document editor supporting simultaneous multi-user editing with live cursor presence and conflict-free real-time synchronization
- Implemented a custom Git-like version control system with commit history, snapshots, one-click rollback, and an LCS-based diff checker to visually highlight changes between versions
- Developed Notion-style slash command support via custom TipTap extensions, enabling rich-text formatting and dynamic content insertion without leaving the keyboard

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C++, HTML, CSS

Frameworks / Libraries: React.js, Next.js, Liveblocks, LiveKit, TipTap

Databases: MongoDB, PostgreSQL, ConvexDB

Developer Tools: Git, VS Code, Neovim, IntelliJ IDEA

ACHIEVEMENTS

- Peak LeetCode Rating: 1778
- Peak Codeforces Rating: 1233
- Peak CodeChef Rating: 1553
- Secured rank 3591 among 21,000+ participants in Codeforces Div. 1 + Div. 2 round
- Solved over 1,400 competitive programming problems across platforms (Codeforces, CodeChef, LeetCode)