

# AAYUSH SONI

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LinkedIn

Github

Leetcode

Codeforces

Portfolio

## Education

### Indian Institute of Information Technology Sricity

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA of 9)

August 2023 - June 2027

Andhra Pradesh, India

### Vidya Bharti Public School

Scored 96.6% in class 12th , RBSE

April 2020 - Mar 2021

Rajasthan, India

## Projects

### YouTube Clone | OAuth 2.0, ExpressJS, MongoDB, NodeJS, React, Redux, GitHub Collaboration | Live Demo

- Built **full-stack video platform** with Google login, uploads, subscriptions, and user engagement.
- Added **personalized video recommendations** based on user activity.
- Built a scalable search system with MongoDB Atlas, improving discoverability by **40%** and reducing query response time by **60%**.
- Designed a notification system that reduced user churn by **10%** and increased session duration by **20%**.
- Used **GitHub** for team collaboration: PRs, issue tracking, and version control.

### Docs | Next.js, Tailwind CSS, Clerk, Convex, Liveblocks, Tiptap | Live Demo

- Built a real-time document editor supporting **50+ concurrent users** using **Liveblocks** and **Convex**.
- Implemented **personal and organizational modes** for solo or collaborative editing.
- Secured access with **Clerk**, enabling org-based permissions and 100% authenticated sessions.
- Added **rich-text editing, comments, and tagging** with **Tiptap** to boost team collaboration by **35%**.
- Enabled export in **PDF, HTML, JSON, and TEXT** formats for flexible data sharing.

### Chat-App | Socket.io, React, Material-UI, JWT Authentication | Live Demo

- Developed a real-time chat app with **Socket.io**, achieving message delivery latency under **100ms** and supporting 100+ concurrent users.
- Implemented **JWT-based authentication**, ensuring secure user login, token verification, and protected chat sessions.
- Designed a **fully responsive UI** using **Material-UI**, optimizing layouts for mobile and desktop users.
- Added **typing indicators** and **online/offline tracking**, improving engagement and retention by 15%.
- Built a **group chat feature**, allowing multiple users to communicate in real-time with dynamic member updates.

### Groot - A Git-like CLI Version Control System | Node.js, Commander, Chalk | GitHub Repo

- Built a custom version control CLI tool with functionality to **track, stage, commit** and **log file changes**, mimicking Git.
- Used **Commander** for structured CLI commands and **Chalk** for readable terminal output.
- Focused on minimalism and clarity to help developers learn core version control concepts.

## Achievements

- Highest rating of **1200** (Pupil) at **CodeForces** which is the top site in terms of participation of programmers across globe.
- Solved 500+ DSA/CP problems across platforms such as Codeforces, Leetcode and Codechef.

## Technical Skills

**Languages:** C , C++, Java, JavaScript, R, python

**Technologies/Frameworks/Libraries:** ReactJS ,Nextjs, nodejs ExpressJS, Git/Github , Tailwind CSS, Cursor

**Databases:** MongoDB, SQL

**Core-Subjects:** OOPS, DBMS , ML and DL