

DHANANJAY SHARMA

Kurukshetra, India

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Github

Portfolio

LinkedIn

LeetCode

Education

UIET, Kurukshetra University

Btech. Computer Science - CGPA - 7.00

2022 - Current

Kurukshetra, Haryana

Skills

Languages: C++, JavaScript, TypeScript, Java, Python

Technologies: Next.js, Node.js, Express.js, React.js, Docker, Socket.io, Git

Databases: MongoDB, MySQL, Redis

Other: WebSockets, AI-Integration, REST APIs, WebRTC, Authentication, Encryption

Projects

BLITZIT : Containerized Real-Time Collaborative Code Editor

Mar 2025 - May 2025

- Built a **cloud-based IDE** with simulated file tree, terminal, and code editor using **React** and **Node.js**.
- Implemented a **WebSocket backend** with **30+ endpoints** for terminal, file I/O, and container lifecycle.
- Achieved **100 ms latency** using **WebRTC** and **Redis Pub/Sub** for real-time sync.
- Tech Stack:** React.js, Node.js, Socket.io, Redis, MongoDB, Docker, WebRTC, Yjs

DrawBuddy : Real-Time Collaborative Whiteboard

Nov 2024 - Dec 2024

- Built a collaborative drawing app with **Canvas API**, supporting **infinite canvas**, zoom, and teleportation.
- Optimized for **60+ strokes/sec** with session persistence and smooth UX.
- Tech Stack:** React.js, Node.js, Socket.io, 2D Canvas, Konva.js

YouTube Clone : Full Stack Video Sharing Platform

Aug 2024 - Oct 2024

- Developed a platform with **authentication**, **comments**, subscriptions, and **custom video player**.
- Used **Cloudinary** for video upload/delivery; **MongoDB** for user, video, and comment data.
- Tech Stack:** Next.js, Node.js, TypeScript, MongoDB, Cloudinary, Shadcn UI

Auto AI Video Generator : AI-Powered Video Generator

July 2025

- Built an **end-to-end AI video generator** using **Gemini APIs** for text, speech, and image synthesis.
- Automated story creation, asset generation, and video merging via **FFmpeg**.
- Tech Stack:** Node.js, FFmpeg, Gemini APIs (Text, Speech, Image)

Coursework

- | | | | |
|---------------------|---------------------|----------------------|-------------------------|
| • Data Structures | • OOP | • Automata | • Computer Architecture |
| • Algorithms | • DBMS | • Compiler Design | |
| • Operating Systems | • Computer Networks | • Algorithm Analysis | |

Achievements

- Made **1000+ commits** over **20+ repositories** on GitHub.
- Solved **more than 650** problems on Data Structures and Algorithms on Leetcode.
- Scored **93.2172822%**ile in Joint Entrance Examination (JEE) Mains 2022
- Learned teamwork being in a **2-person powerhouse** of a team by working together on big projects.

Certifications

- IP Addressing and Subnetting - GeeksforGeeks
- Web Development - Internshala Trainings