

# LAKSHAY LALIA

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[lakshaylalia](#)

Kangra, Himachal Pradesh

## EDUCATION

### • National Institute of Technology , Hamirpur

CGPA:8.62

B.Tech in Computer Science and Engg.

◦ June 2023 - Present

## TECHNICAL SKILLS

- **Programming Languages** C, C++, Python, JavaScript, TypeScript
- **Web Technologies:** React.js, Next.js, Bootstrap, Tailwind CSS
- **Backend Databases:** Node.js, Express.js, MongoDB , SQL, EJS, REST APIs
- **Tools and Platforms:** Git, GitHub, VS Code, Postman, Thunder Client
- **Course Work:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems

## PROJECTS

### • B+ Tree Visual DB: In-Memory Database and Tree Visualizer

[Preview](#)



Tools: Next.js, JavaScript, Tailwind CSS, B+ Tree (DSA)

- Built a full-stack in-memory database web app using **Next.js**, **JavaScript**, and **Tailwind CSS**, implementing a custom **B+ Tree** for indexing.
- Applied DSA concepts like node splitting, traversal, and range queries to support efficient insert, search, and retrieval operations.
- Developed interactive UI to visualize the tree structure and API-integrated operations in real time.

### • CSEC Website: Official Departmental Community Platform

[Preview](#)



Tools: Next.js, Tailwind CSS

- Developed a responsive and accessible front-end using Next.js and Tailwind CSS, increasing user engagement by **40%**.
- Redesigned the UI for improved navigation and usability, supporting **500+** active users.
- Coordinated with the CSEC team as Secretary to gather requirements and prioritize feature updates based on user feedback.

### • Vibble: Backend for Hybrid Video and Microblogging Platform



Tools: Node.js, Express.js, MongoDB, REST API

- Developed scalable backend APIs to support video uploads, streaming, and microblogging features in a unified platform.
- Implemented secure authentication and authorization to protect user data and enable content access control.
- Built RESTful APIs enabling real-time content updates, video processing workflows, and user interactions.
- Integrated video upload, transcoding, and streaming pipelines ensuring smooth media delivery.

## EXPERIENCE

### • Secretary, CSEC Society

2024 - Present

Organizer & Leader

NIT Hamirpur

- **Hackathon Organizer:** Organized National Level Hackathon, HACK 5.0, with **800+** participants ensuring seamless event execution, participant engagement, and technical excellence.

## ACHIEVEMENTS

- Solved **250+** problems across LeetCode, Codeforces, and GFG. [Click here](#)