



LAKSHAY LALIA

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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 , 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.

• Hack 5.0 Website: National-Level Hackathon Platform

Preview 

Tools: Next.js, Tailwind CSS

- Developed a responsive, high-performance website for **Hack 5.0**, a national-level hackathon organized by the **CSEC departmental society**, attracting **1000+** participants from across India.
- Designed and implemented intuitive UI components in Next.js and Tailwind CSS to streamline registration, schedule access, and live event updates.
- Coordinated with the CSEC team as Secretary to gather requirements, manage content, and ensure timely feature delivery before the event launch.

• 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 role-based authorization, reducing unauthorized access attempts by **95%**.
- Built RESTful APIs enabling near real-time content updates with average response times under **200ms**.
- Integrated video upload, transcoding, and streaming pipelines, delivering videos with **<2s** initial load time and **99.9%** uptime.

EXPERIENCE

• Student Coordinator, CSEC Society

2024 - Present

Organizer & Leader

NIT Hamirpur

- **Hackathon Organizer:** Organized National Level Hackathon, HACK 5.0, with **1000+** participants ensuring seamless event execution, participant engagement, and technical excellence.

ACHIEVEMENTS

- Solved 600+ problems across LeetCode, Codeforces, and GFG. [Click here](#)