VIKAS KUMAR SINGH

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PROFESSIONAL PROFILE

Full-stack web developer skilled in building scalable, user-centric applications with clean frontend and robust backend systems. Eager to contribute to real-world products, delivering performant, secure, and modern solutions.

EDUCATION

Bachelor of Computer Applications, LNCT University   2023 – 2026

TECHNICAL SKILLS

Languages: JavaScript, Java, SQL, HTML & CSS
Libraries/Frameworks: NodeJS, ExpressJS, ReactJS, NextJS, Tailwind, Shadcn, Mongoose, Tanstack, Redux Toolkit, Sockets
Developer Tools: VS Code, IntelliJ IDEA, NetBeans, Git, Postman, AWS, S3, Cloudinary
Other: Data Structures & Algorithms, DBMS, OOPS Concepts, ,Docker,GitHub

PROJECT EXPERIENCE

WorkManager – AI-Powered Task & Team Management Platform   **Live Link**

- Engineered a **Role-Based Access Control (RBAC)** system with task-level permission granularity, reducing internal data breaches and unauthorized actions by **70%**.
- Designed a **review and feedback API system** integrated into the workflow, increasing feedback turnaround speed by **60%** and improving task reassignment accuracy.
- Built an **AI-generated work progress module** using the Gemini LLM API to auto-analyze task completion and productivity, reducing manual reporting time by **50%**.
- Developed a secure **file attachment subsystem** linked to tasks and user roles, enhancing collaboration and reducing asset loss/miscommunication by **40%**.

TalkSpace – Real-Time Video Conferencing Platform

- Built an intuitive frontend for a video chat platform using **React.js**, **WebRTC**, and **Socket.io**.
- Designed responsive meeting UI with features like **screen share**, **mute toggle**, and **live chat** using React components.
- Collaborated with backend team to ensure seamless data flow and real-time session handling.
- Optimized connection stability and browser compatibility across devices.

Startup Registration Portal – Smart India Hackathon Finalist

- Finalist at **Smart India Hackathon 2024**; built a production-ready startup registration portal for Ministry of AYUSH.
- Developed multi-page registration workflow with session handling, validation, and user dashboard using MERN stack.
- Integrated role-based user authentication and application status tracking features.
- Collaborated with a 5-member team, led frontend efforts, and ensured accessibility across mobile and desktop.

HIGHLIGHTS

- Finalist at **Smart India Hackathon 2024 - IIT TIRUPATI**.
- Completed intensive **MERN Stack** course with strong command over frontend and backend development.
- Practiced **150+ DSA problems** on LeetCode.