

# Anubhav Raj Singh

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## PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience building **scalable real-time applications** using Next.js, Node.js, WebSockets, and PostgreSQL. Skilled in developing secure REST APIs, JWT-based authentication systems, and complex frontend architectures including **custom HTML5 Canvas drawing engines** and collaborative real-time platforms. Strong focus on performance, security, and production-ready system design.

## EDUCATION

**Bachelor of Technology (B.Tech) in Computer Science and Engineering**

Shri Ramswaroop Memorial University, Lucknow

2022 – 2026

CGPA: 8.57

## TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Java
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, HTML5 Canvas, Responsive Design
- **Backend:** Node.js, Express.js, REST APIs, Next.js API Routes, WebSockets, Authentication & Authorization (JWT, bcrypt)
- **Database:** MongoDB, PostgreSQL, MySQL, Prisma ORM
- **Tools & Deployment:** Git, GitHub, Postman, Docker, Turborepo, pnpm, Vercel
- **Core Skills:** Data Structures & Algorithms (Java), MERN Stack, System Design, Real-Time Systems
- **Soft Skills:** Problem Solving, Critical Thinking, Communication

## PROJECTS

- **Zendraw – Real-Time Collaborative Whiteboard** Live GitHub  
Real-time collaborative whiteboard built from scratch using HTML5 Canvas with a custom drawing engine (no external libraries).  
*Tech Stack:* Next.js, TypeScript, HTML5 Canvas, Express.js, WebSockets, Prisma, PostgreSQL, Tailwind CSS, JWT, Zod, Turborepo
  - Built a custom HTML5 Canvas engine supporting 7+ drawing tools, infinite scrolling and real-time multi-user rendering
  - Implemented real-time multi-user collaboration using WebSockets with room-based shape synchronization.
  - Designed a scalable full-stack architecture using Next.js, Express REST APIs, and a dedicated WebSocket server for real-time communication.
  - Developed a secure system using JWT auth, bcrypt, rate limiting, Helmet, CORS, and PostgreSQL with Prisma.
  - Implemented persistent canvas storage, restoring shapes and sessions when users rejoin rooms.
- **ZyncTalk – Real-Time Chat Application** Live GitHub  
Feature-rich real-time messaging platform built using the MERN stack and Socket.io. *Tech Stack:* React.js, Express.js, MongoDB, Socket.io, Tailwind CSS, Zustand, JWT, Docker, Helmet
  - Developed a full-stack real-time chat application using MERN and Socket.io for low-latency bidirectional messaging and live user presence.
  - Implemented secure authentication using JWT and bcrypt with API protection via rate limiting, CORS, and Helmet.
  - Designed a responsive production-ready UI with Tailwind CSS and Zustand, and containerized the application using Docker for scalable deployment.

## EXPERIENCE

- **Frontend Developer Intern** Aug 2025 – Sept 2025  
*IBM SkillBuild × Edunet* Certificate
  - Completed a 6-week industry-aligned internship focused on Front-End Development.
  - Built 10+ responsive UI components and improved front-end performance and consistency.
  - Gained exposure to professional workflows through IBM SkillBuild, Edunet Foundation, and AICTE collaboration.
- **Frontend Developer Intern** July 2025 – August 2025  
*Vault of Codes* Certificate
  - Enhanced UI and design of the company website to improve user experience and visual appeal.
  - Applied modern frontend technologies including HTML, CSS, JavaScript, and React.js.
  - Refined responsive layouts and interactive components to ensure cross-device compatibility.

## CERTIFICATIONS

- Web Development Fundamentals — IBM SkillsBuild Certificate
- Complete Full-Stack Web Development Bootcamp — Udemy Certificate
- Entrepreneurship & Innovation — City of Moreton Bay (Forage) Certificate
- Skyscanner Front-End Software Engineering (Forage) Certificate