Shivanshu Sahil

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Computer Science student with strong software engineering fundamentals and hands-on experience in full-stack development and modern technologies.
Proficient in modern programming languages skilled in debugging, problem-solving, and working in agile teams to build scalable, user-focused applications.
Excellent communication and collaboration abilities with a passion for developing innovative software solutions

Education

Manipal University Jaipur   Aug 2023 - Present
Bachelor of Technology in Information Technology   CGPA: **9.59**

- **Relevant Coursework:** OOPS, DBMS, Operating system, Computer networks,Data Structures and Algorithms, Software Engineering and Project Management, Statistics & Probability, , MATLAB for Engineers, Engineering Graphics

SKP Vidya Vihar Bhagalpur   2023
XII   81.5%

Skills

Languages: C++, Java, SQL(MySQL), JavaScript, Python,TypeScript

Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js, FAST APIs, Tailwind CSS, Bootstrap, Socket.IO

Soft Skills: Problem-solving, Analytical thinking, Effective communication, Time management, Teamwork, Adaptability

Projects

Portfolio Website   Github | LiveLink

- Built a responsive personal portfolio website with Next.js, TypeScript, and Tailwind CSS.
- Integrated dynamic project showcase, contact form (EmailJS), and theme switching.
- Deployed on Vercel with optimized performance and SEO best practices.

Collaborative Whiteboard App   Github

- Built a real-time collaborative whiteboard app (MERN+Socket.IO) with role-based access, supporting 10+ concurrent users and <100ms sync latency.
- Engineered scalable JSON-based drawing sync, modern UI, and live user presence, improving team collaboration and engagement.
- Delivered secure, accessible, and maintainable codebase, reducing onboarding time for new developers by 40%

AI-Powered Flood Risk Assessment System   Github | LiveLink

- Developed AI flood risk system using DEM analysis + image segmentation (Gemini 2.0, U-Net); improved risk detection accuracy by 35%.
- Built full-stack app with Next.js + FastAPI, integrating real-time maps, risk scoring, and actionable insights.
- Processed geospatial + image data for multi-level risk categorization, aiding planners and emergency teams.

CERTIFICATIONS

1. Dean's List Excellence in Academics by **Manipal University Jaipur** in all four semesters completed

2. Programming in Modern C++ by **NPTEL (IIT Kharagpur)**

3. Database Design, Database Foundations, Database Programming with SQL by **ORACLE**