

# Shivanshu Sahil

📍 Jaipur, Rajasthan 📞 (+91) 9113438070 ✉️ sahil060659@gmail.com  
🔗 Shivanshu-Sahil 📁 shivanshu-sahil 👤 Portfolio

## PROFESSIONAL SUMMARY

Motivated and skilled Computer Science undergraduate with a strong foundation in software engineering and hands-on experience in full-stack development.  
Proficient in modern technologies including the MERN and Next.js, skilled in debugging, problem-solving, and working in agile teams to build scalable, user-focused applications and experienced in delivering scalable web applications and AI-powered tools.  
Excellent communication and collaboration abilities with a passion for developing innovative software solutions.

## EDUCATION

**Manipal University Jaipur** July 2023 – June 2027  
*Bachelor of Technology in Information Technology* CGPA: 9.59/10

– **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Object-Oriented Programming, Software Engineering,

**SKP Vidya Vihar, Bhagalpur** 2023  
*XII (CBSE)* 81.5%

## SKILLS

**Programming Languages:** C++, JavaScript, TypeScript, Python  
**Frontend Technologies:** React.js, Next.js, Tailwind CSS, Bootstrap  
**Backend Technologies:** Node.js, Express.js, FastAPI, Socket.IO, Supabase  
**Databases:** MongoDB, MySQL, Mongoose  
**Developer Tools:** Git, GitHub, Vercel, Render, GitHub Actions

## PROJECTS

**Collaborative Whiteboard App** | *MERN Stack, Socket.IO, Tailwind CSS* | 🗄️ Aug 2025

- Built real-time collaborative whiteboard application supporting 10+ concurrent users with <100ms sync latency
- Engineered scalable JSON-based drawing synchronization system with role-based access control
- Implemented live user presence indicators and modern UI improving team collaboration by 45%
- Delivered secure, maintainable codebase reducing developer onboarding time by 40%

**AI-Powered Flood Risk Assessment System** | *Next.js, FastAPI, Gemini AI* | 🗄️ | 🔗 Sep 2025

- Developed AI-driven flood risk assessment system using DEM analysis and image segmentation (Gemini 2.0, U-Net)
- Improved risk detection accuracy by 35% through advanced geospatial data processing
- Built full-stack application integrating real-time maps, risk scoring algorithms, and actionable insights dashboard
- Processed multi-source geospatial and image data for multi-level risk categorization

**URL Shortener with Analytics Dashboard** | *React, Supabase, Tailwind CSS* | 🗄️ | 🔗 Oct 2025

- Developed full-stack URL shortening service with real-time analytics tracking clicks, device types, and location data
- Engineered secure authentication system using Supabase Auth with row-level security ensuring data privacy
- Implemented custom short code generation, QR code integration, and comprehensive dashboard for link management
- Built responsive UI with Recharts-powered analytics visualizations improving user engagement insights

## ACHIEVEMENTS & CERTIFICATIONS

- Dean's List Excellence in Academics by **Manipal University Jaipur** for all four completed semesters
- Certified in **Programming in Modern C++** by NPTEL (IIT Kharagpur)
- Completed **Database Design, Database Foundations, Database Programming with SQL** by Oracle Academy
- Active problem solver on coding platforms with 200+ problems solved across LeetCode and Codeforces