

# Sahil Vishwakarma

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## EDUCATION

Lakshmi Narain College of Technology	Expected July 2026
Bachelor of Technology - Computer Science Engineering	CGPA: 8.15/10
Jawahar Navodaya Vidyalaya, Sagar	April 2021
Higher Secondary Certificate (XII) - CBSE Board	Percentage: 91.6%
Jawahar Navodaya Vidyalaya, Sagar	April 2019
Secondary School Certificate (X) - CBSE Board	Percentage: 92.4%

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, TypeScript, SQL, HTML, CSS

**Technologies & Frameworks:** Next.js, React.js, Express.js, Node.js, Tailwind CSS, Prisma (ORM), PostgreSQL, MongoDB

**Tools & Platforms:** Git, GitHub Actions, Docker, Postman, Redis, Agile/Scrum, CI/CD, RESTful APIs

## PROFESSIONAL EXPERIENCE

Frontend Developer Intern	September 2023 - February 2024
TechGenesis (LNCT Incubation Center)	Bhopal, MP
<ul style="list-style-type: none"><li>Engineered <b>8+ responsive websites</b> using <b>React.js</b>, <b>JavaScript</b>, <b>HTML/CSS</b> achieving <b>95%+ client satisfaction</b></li><li>Designed visually appealing interfaces with <b>Tailwind CSS</b>, <b>Framer Motion</b>, <b>GSAP</b>, <b>Three.js</b> for enhanced user engagement</li><li>Collaborated with <b>12-member startup team</b> using <b>shadcn/ui</b> and frontend libraries for custom client solutions</li><li>Reduced average project delivery time by <b>30%</b> through reusable component architecture and efficient development practices</li></ul>	
Freelance Full Stack Developer	March 2025 - April 2025
Mukul Verma & Co.	Remote
<ul style="list-style-type: none"><li>Delivered enterprise-grade office management <b>SaaS solution</b> handling <b>50+ concurrent users</b> with <b>99.9% uptime</b></li><li>Configured multi-tier <b>RBAC</b> and 4 role-based dashboards with analytics, feeds, and task overviews, leveraging RESTful APIs</li><li>Integrated core <b>workflows</b> for task assignment, priority, <b>billing approval</b>, <b>status tracking</b>, and <b>notifications</b></li><li>Ensured reliability with strong validations, centralized error handling, <b>Cron jobs</b> and <b>Agile</b> methodology for maintenance</li></ul>	

## PROJECTS

Office Pilot - Workspace Management SaaS	<a href="#">Live Demo</a> · <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Created full-stack SaaS using <b>Next.js</b>, <b>TypeScript</b>, <b>Tailwind CSS</b>, <b>Prisma</b>, <b>PostgreSQL</b>, <b>Redis</b>, <b>Cloudinary</b>, <b>Socket.io</b></li><li>Architected <b>many-to-many</b> schema; improved performance with <b>lazy loading</b>, <b>SSR</b>, and cursor-based pagination</li><li>Implemented real-time chat and notifications using <b>WebSockets</b> with <b>Redis Pub/Sub</b> for seamless communication</li><li>Secured platform with Role-Based Access Control (<b>RBAC</b>), <b>NextAuth.js</b>, <b>Zod</b> validation, <b>bcrypt</b> hashing, and <b>Redis caching</b></li><li>Delivered responsive UI with theme toggle, local storage, and full-screen UX enhancements for better user experience</li></ul>	
True Feedback - Progressive Web App	<a href="#">Live Demo</a> · <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Built anonymous feedback platform using <b>Next.js</b>, <b>React</b>, <b>TypeScript</b>, <b>OAuth</b>, <b>OTP</b> validation, <b>JWT</b>, <b>NextAuth</b></li><li>Integrated <b>OpenAI API</b> and <b>Vercel AI SDK</b> for AI-generated suggestions and category-wise feedback filtering capabilities</li><li>Crafted fully animated, responsive UI using <b>Tailwind CSS</b>, <b>Framer Motion</b>, <b>lucide-react</b> for engaging user experience</li><li>Handled secure feedback storage and updates via <b>MongoDB/Mongoose</b>; validated forms with <b>Zod</b> and <b>React Hook Form</b></li></ul>	
Oil Spill Detection System - Group Project	<a href="#">Live Demo</a> · <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Delivered dashboard using <b>Next.js 15</b> with <b>SSR</b> to visualize oil spill segmentation maps and confidence scores</li><li>Coded ML inference pipeline using <b>U-Net</b> and <b>DeepLabV3+</b> models with <b>Python</b>, <b>FastAPI</b>, Hugging Face for 95%+ accuracy</li><li>Containerized backend using <b>Docker</b>, deployed on <b>Render</b> with optimized image processing pipelines and secure <b>CORS</b></li><li>Established <b>CI/CD</b> workflows using <b>GitHub Actions</b> for automated linting, Docker builds, deployment to <b>Vercel</b> and <b>Render</b></li></ul>	

## CERTIFICATIONS

**Oracle:** OCI 2025 Certified AI Foundations Associate

**NPTEL:** Programming in Java · Database Management System · Computer Networks

**AWS:** Cloud Foundations Certification

## ACHIEVEMENTS

- Participated in Smart India Hackathon (SIH) 2024 and 5+ competitive hackathons
- Recognized as “Elite” by NPTEL for Programming in Java (82%) — IIT Kharagpur