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: 91.4%
Jawahar Navodaya Vidyalaya, Sagar	**April 2019**
Secondary School Certificate (X) - CBSE Board	Percentage: 92.6%

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*

- Engineered **8+ responsive websites** using **React.js**, **JavaScript**, **HTML/CSS** achieving 95%+ client satisfaction
- Designed 5+ visually appealing interfaces with **Tailwind CSS**, **Framer Motion**, **Three.js** for enhanced user engagement
- Collaborated with **12-member startup team** using **shadcn/ui** and frontend libraries for custom client solutions
- Reduced average project delivery time by 30% through reusable component architecture and efficient development practices

Freelance Full Stack Developer — **March 2025 - April 2025**
Mukul Verma & Co. — *Remote*

- Developed enterprise-grade office management **SaaS solution** handling 50+ concurrent users with 99.9% uptime
- Configured multi-tier **RBAC** and 4 role-based dashboards with analytics, feeds, and task overviews, leveraging RESTful APIs
- Integrated 10+ core **workflows** for task assignment, priority, **billing approval**, **status tracking**, and **notifications**
- Ensured reliability with 15+ strong validations, centralized error handling, **Cron** jobs and **Agile** methodology for maintenance

PROJECTS

Office Pilot - Workspace Management SaaS — *Live Demo · GitHub*

- Created full-stack SaaS using **Next.js**, **TypeScript**, **Tailwind CSS**, **Prisma**, **PostgreSQL**, **Redis**, **Cloudinary**, **Socket.io**
- Architected **many-to-many** schema; improved performance with **lazy loading**, **SSR**, and cursor-based pagination
- Implemented real-time chat and notifications using **WebSockets** with **Redis Pub/Sub** for seamless communication
- Secured platform with 5 security layers: RBAC, **NextAuth.js**, **Zod** validation, **bcrypt** hashing, and **Redis caching**
- Delivered responsive UI with 3 theme options, local storage, and full-screen UX enhancements for better user experience

True Feedback - Progressive Web App — *Live Demo · GitHub*

- Built anonymous feedback platform using **Next.js**, **React**, **TypeScript**, **OAuth**, **OTP** validation, **JWT**, **NextAuth**
- Integrated **OpenAI API** and **Vercel AI SDK** for AI-generated suggestions and category-wise feedback filtering capabilities
- Crafted fully animated, responsive UI with 20+ components using **Tailwind CSS**, **Framer Motion** for engaging experience
- Handled secure feedback storage and updates via **MongoDB/Mongoose**; validated forms with **Zod** and **React Hook Form**

Oil Spill Detection System - Group Project — *Live Demo · GitHub*

- Launched dashboard using **Next.js 15** with **SSR** to visualize oil spill segmentation maps and confidence scores
- Coded ML inference pipeline using **U-Net** and **DeepLabV3+** models with **Python**, **FastAPI**, Hugging Face for 95%+ accuracy
- Containerized backend using **Docker**, deployed on **Render** with 3 optimized image processing pipelines and secure **CORS**
- Setup **CI/CD** workflows using **GitHub Actions** for 4 automated processes: linting, builds, deployment to **Vercel** and **Render**

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