SHANTANU TIWARI

Noida, India

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Education

JSS Academy of Technical Education — **2023 − 2027**
Bachelor of Science in Computer Science (spec. in Data Science) — *Noida, Uttar Pradesh*

Experience

Ascendix IT — **June 2025 − July 2025**
Full Stack Developer Intern — *Remote*
- Currently building a SaaS platform for AI-driven podcast clipping, leveraging multimodal models to detect viral moments, identify speakers, and generate vertical-focused clips
- Contributed to the backend development of a real-time voice-based AI application, integrating speech-to-text and text-to-speech services to support interactive audio workflows
- Collaborated on diverse freelance-style web projects, including React-based apps, static landing pages, and Electron desktop tools for internal clients

Central Ground Water Board — **April 2025 − May 2025**
Software Development Intern — *Remote*
- Designed and built a responsive web dashboard to visualize groundwater monitoring data, supporting CGWB's efforts in water resource transparency and decision-making
- Implemented user-friendly UI/UX features such as dropdowns, search filters, and responsive map interactions for ease of data exploration by non-technical users
- Collaborated with officials to identify key user requirements and proposed future enhancements including user roles, login-based access, and alert systems
- Integrated backend scripts in Python to automate ingestion of XML and CSV-based groundwater datasets into the web application

Projects

API Nexus – *Postman-like API testing workspace* | Live
- Developed a full-stack API testing workspace similar to Postman using **Next.js**, **Tailwind CSS**, and **TypeScript**
- Implemented features like request history, response preview, error handling, and customizable headers and body
- Used **Zustand** for state management and **Shadcn UI** for consistent, accessible design
- Built a responsive UI optimized for developers; deployed on **Vercel** with a scalable architecture

Personal Portfolio Website – *Showcase site with responsive frontend* | Live
- A personal portfolio to showcase projects, skills, and contact details. Demonstrates frontend proficiency with smooth navigation and responsive layouts using **React**, **HTML**, and **Tailwind CSS**

EvoScan – *Pathogenic variant prediction using deep learning* | Live
- Developed a web platform using **Next.js** and **FastAPI** for analyzing genetic mutations with the **Evo2** deep learning model
- Integrated real-time gene and variant data from **UCSC Genome Browser** and **NCBI ClinVar APIs**
- Deployed a scalable, GPU-backed backend using **Modal** to serve Evo2 predictions on demand

Code Craft – *Online multi-language code editor and compiler* | Live
- Created an online IDE using **Next.js**, **TailwindCSS**, and **Monaco Editor**, with real-time code compilation and sharing
- Integrated a functioning subscription system, allowing users to save and share code snippets
- Used **Zustand** for efficient state management and deployed via **Vercel**

Technical Skills

Languages: Python, Java, C, JavaScript, TypeScript, HTML, CSS, SQL
Frameworks/Libraries: React, Next.js, Tailwind CSS, Shadcn UI, FastAPI, Express.js, JavaFX
Tools/Platforms: Git, GitHub, Docker, Jenkins, Modal, Vercel, Postman, Figma, Liveblocks
Databases: PostgreSQL, Firebase, MongoDB
Cloud: Google Cloud Platform, AWS

Certificates

- **Full-Stack Web Development** — View Certificate
- **Postman Student Expert Certification** — View Certificate