

# TANMAY SHARMA

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## Education

Vellore Institute Technology, VIT, Vellore  
Bachelor of Technology in Computer Science

Dec 2022 - May 2026  
CGPA: 8.1/10.0

## Experience

Valsco Technology

July 2024 - Sept 2024

Software Developer Intern

- Spearheaded UI modernization and animation integration in a ticket management system using **React**, **Next.js**, **React Three Fiber**, **GSAP**, and **Framer Motion**, enhancing task efficiency and boosting user retention.
- Engineered a secure, responsive login interface with optimized **form validation**, improving authentication speed by **25%** and reducing vulnerabilities in accordance with **web security best practices**.
- Increased user engagement by **35%** through **scroll-triggered animations** and **staggered reveals**, while enhancing **mobile performance** and reducing page load times using **Tailwind CSS** and modern JavaScript frameworks.

## Projects

Yelpcamp Application | Express.js, Node.js, Bootstrap, MongoDB Atlas | [PROJECT HERE](#) Nov 2024 - Jan 2025

- Developed YelpCamp, a dynamic full-stack web application that enables users to create, edit, and review campgrounds featuring secure session management, and real-time flash messaging for intuitive error and success feedback.
- Improved performance and user experience by integrating **AWS S3** for image storage and content delivery, reducing page load time by 1.5 seconds and increasing image upload efficiency by over 50% across various devices.
- Enhanced security by implementing robust user authentication using **Passport.js**, along with encrypted password storage via **bcrypt**, resulting in a 98% reduction in unauthorized access attempts and improved user data protection.

AI Blog Application | Next.js, Appwrite, Tailwind CSS | [PROJECT HERE](#)

Oct 2024

- Built a blog creation platform using **Gemini API**, allowing users to generate, edit, and save content efficiently, reducing content creation time by 40%. Customizable writing styles (Technical, Formal, Casual) for user flexibility.
- Implemented robust authentication and access control using **Clerk**, ensuring 100% data privacy compliance and reducing login-related issues by 30%, leading to a smoother user experience. .
- Leveraged AI-powered tools for **keyword optimization**, **SEO analysis**, and **content enhancement**, significantly improving blog visibility and boosting organic traffic by up to 3x, leading to better audience engagement. .

Quote Generator App | Python (FastAPI), PostgreSQL, Supabase, Next.js, TypeScript | [PROJECT HERE](#) May 2025

- Built a full-stack quote generation web application that fetches random quotes from a third-party API and allows users to search for quotes by author name, providing an engaging and interactive user experience.
- Implemented efficient and maintainable database interactions using **SQLAlchemy ORM**, enabling the structured storage and retrieval of over 100 curated quotes in a **PostgreSQL** database, which is hosted on **Supabase**.
- Developed a sleek, mobile-responsive frontend using **Next.js**, integrated seamlessly with a **FastAPI** backend written in **Python**, delivering optimized performance with API responses rendered in under 200 milliseconds on average.

## Achievements and Certifications

- Selected till the final round for the **Green Future Project** at the **IIT Madras Hackathon**, focusing on sustainable innovation.
- Solved **500+** problems across platforms including Codeforces, CodeChef, HackerRank, SPOJ, and LeetCode.
- Published a book on topic - **“REVOLUTIONISING PEDAGOGY AND WELL-BEING WITH AVANT-GARDE TECHNOLOGY”** [Link]

## Technical Skills

Languages : C, java, typescript, Javascript, Python, css,

Frameworks : React.js (NextJs), FastAPI, RestAPI, Pandas, Tailwindcss, Numpy, framer-motion, Gsap

Databases and Tools : MySQL, MongoDB, Supabase, Appwrite, AWS(S3), Github, Vercel, Render, NeonDb.

Computer Science: Data Structures & Algorithms , Object Oriented Programming, Operating System, DBMS, Computer Networks, Aws Solution Architech, Design and Analysis of Algorithms.