Khushi Roy

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EDUCATION

Vellore Institute of Technology Bhopal University, Bhopal — *October 2022 – Present*
B.Tech, Computer Science and Engineering — *CGPA: 8.79*

Seth Anandram Jaipuria School, Ghaziabad — *April 2008 – March 2021*
Class XII, Central Board of Secondary Education (CBSE) — *Percentage: 95.4%*
Class X, Central Board of Secondary Education (CBSE) — *Percentage: 96.6%*

EXPERIENCE

Frontend Developer Intern — *October 2024 – December 2024*
AKB Tech — *Hyderabad, India (Remote)*

- Designed and optimized responsive UIs for company website and admin dashboards using **React.js**, **Tailwind CSS**, **Material UI**, and **Framer Motion**
- Optimized state management with **Zustand** and integrated **OTPless authentication** for seamless user experience
- Enhanced website performance by **44%** through lazy loading, SEO optimization, and code refactoring, reducing page load time by 1.5 seconds
- Collaborated in regular code reviews with the development team to ensure code quality, maintainability, and scalability

PROJECTS

ManimAI | *Next.js, FastAPI, Gemini API, Cloudinary, Manim, Docker, TailwindCSS, ShadCN* — *May 2025*

- Developed full-stack web application that generates **mathematical animations** from natural language prompts using FastAPI, Google Gemini AI, and Manim
- Implemented chat-based UI with video preview and download options (MP4/GIF), integrating with FastAPI backend for Manim code generation and video rendering via **FFmpeg**
- Leveraged **Cloudinary** for object storage and efficient retrieval of video URLs for seamless UI rendering
- Containerized backend with **Docker** to manage dependencies including **LaTeX** and **FFmpeg**
- GitHub | Live Demo

FocusFlow | *Javascript, Express.js, Gemini API* — *April 2025*

- Developed a **Chrome extension** using JavaScript, integrating Gemini API for AI-powered **content summarization** (25K char limit) and **YouTube video summarization**
- Built RESTful backend with Express.js, implementing rate limiting (10 req/min) and **Chrome Storage API** for data persistence
- Designed user productivity tool integrating website blocking system, task management dashboard, and AI-powered content analysis with 5 distinct summarization algorithms.
- GitHub | Chrome Web Store

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, C++
Databases: MongoDB, MySQL
Frameworks: Express.js, React.js, Next.js
Developer Tools: Git, GitHub, Postman
Libraries & Styling: TailwindCSS, ShadCN, Zustand

ACHIEVEMENTS

- Advanced to **semi-finals** of **TCS CodeVita S12 2024** and secured All India Rank of **6000**
- Successfully coordinated team of 6 for **Smart India Hackathon 2024 & 2023**, clearing all 3 internal rounds at university level
- Achieved University Rank of **101 among 25,000+** students on GeeksforGeeks and peak contest rating of **1497** on LeetCode