

Samarth Shukla

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Education

Jaypee University of Engineering and Technology, Guna

Sept 2022 – July 2026

B.Tech in Computer Science

- **Relevant Coursework:** Data Structures & Algorithms, Databases, Operating Systems, Software Engineering.

Industry Experience

Junior SDE, Aura-AI (Remote)

August 2025 – Present

- **Advanced Impactor**

- Built a Flutter cricket video analysis app for uploading, streaming, and reviewing match/practice sessions across Android and iOS.
- Helped in creating a Python video segmentation + impact detection pipeline with clip generation and frame extraction, achieving event accuracy.
- Implemented visual analytics (pitch maps, wagon wheel, side-view) with secure cloud sync and role-based access for users.

- **PadhAI**

- Built a web/mobile application for creating classes, managing students, and sharing assignments, quizzes, and learning posts with both manual and AI-assisted workflows.
- Developed an AI-powered doubt-solving assistant with image-based queries, contextual PDF Q&A (RAG), and chat history for personalized learning support.
- Implemented student self-study groups with shared quizzes/assignments, Firebase notifications, and real-time WebSocket chat for collaboration.

Full-Stack Developer Intern, Zummit Infolabs (Remote)

March 2025 – July 2025

- **Digital Nexus AI**

- Spearheaded the development of a scalable EdTech platform offering GenAI, Data Science, and Analytics courses, optimized for performance and modern UX.
- Engineered a fully mobile-responsive web application with 100% device compatibility using React.js, Tailwind CSS, and responsive testing tools.
- Owned frontend architecture decisions, established coding standards, and mentored 3+ interns, accelerating onboarding and project delivery.

Technical Skills

Languages: C++, Python, JavaScript, TypeScript

Frameworks: React.js, Next.js, Express.js, Node.js, FastAPI, React Native, Flutter, OpenCV

Databases: PostgreSQL, MySQL, MongoDB, Supabase, Firebase, Appwrite

Tools and Technologies: Git, GitHub, Docker, Ubuntu, Canva, LangChain, Render, Vercel, AWS

Technical Projects

Video Voice Modifier

- OpenAI Whisper, Google Gemini, Signal Processing, Next.js, FastAPI

- Designed and deployed a full-stack voice tool using Next.js and FastAPI, enabling audio/video edits with advanced voice and grammar control, reducing manual work by 60%.
- Integrated Whisper and TTS for multilingual voice conversion across 20+ languages, cutting transcription time by 80% and processing 50+ videos.
- Applied audio signal processing on 100+ clips to align speech timings, achieving 90%+ lip-sync accuracy in cross-language outputs.

Travisco

- React.js, FastAPI, Google Gemini, LangChain, Firebase

- Built a full-stack travel platform with React, FastAPI, and Firebase, featuring modern UI and full responsive design.
- Added AI features like monument detection, Q&A chat, and community filtering using Gemini 1.5 + LangChain, boosting content discovery by 35%.
- Optimized data flow, reducing load times and media upload latency for smoother sharing of images, videos, and GIFs.