






SHIVAM KUMAR SHAW

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Education

Asansol Engineering College - Asansol

Sep 2022 - Jul 2026

Bachelor of Technology in Computer Science & Engineering

CGPA: 7.52

Skills

Languages : C/C++, JavaScript, Typescript, Python, Java
Tools : Git, GitHub, Vercel, Firebase, Postman, Leetcode
Frameworks & Libraries: React.js, Next.js, React Native, Node.js, Django, FastAPI, Express.js, OpenAI, LangChain
DBMS & ORMs : SQL (MySQL, PostgreSQL), NoSQL (MongoDB), ORMs (Mongoose, Prisma)
Soft Skills : Diplomacy, Leadership, Persistence, Analytical Thinking, Communication, Teamwork.

Experience

GrowthPurple Technologies

Aug 2024 - Present


SDE Intern (Remote)

Hyderabad , Telangana

- Engineered an event-driven **automation** system leveraging **Django** and React.js with efficient polling, reducing manual workflow interventions by 65% and enabling seamless trigger-action sequences for business processes.
- Optimized AI-driven DB voice interface with **RAG** pipeline, FAISS embeddings, Whisper STT, LLM query tuning, and Query execution, achieving 40% faster inference via transformers.
- Architected an **AI-powered** interview scheduler with low-latency video **streaming**, neural ranking, NLP sentiment mining, Whisper auto-transcription, and dynamic BI dashboards, enhancing HR decision **efficiency** by 55%.

Projects

AIQueryNet: Natural Language to Query Retrieval | Tech: Chromadb, OpenAI LLM, Python

 [Live Link](#)

- Developed & Fine-tuned AIQueryNet, a **RAG-based** tool with 75% accuracy in **Query Generation from natural language**, boosting efficiency by 40%; incorporated to store query patterns, **reducing** generation time by 25%.
- Enhanced the model's accuracy by leveraging **ChromaDB** vector similarity and Whisper for **transcription**, enabling a seamless voice feature, resulting in a 60% reduction in incorrect queries and significantly improving operational efficiency.
- Led integration of sentiment analysis for intent detection, significantly enhancing table and column identification by 90% from user queries, refining **database** interaction.

CodeGyaan | Techstack: **React.js**, **Redux**, Tailwind CSS, MongoDB, **Node.js**, Express.js

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- Developed a robust **full-stack** EdTech platform enabling seamless student-instructor collaboration through an intuitive dashboard, enhancing learning efficiency by 85%.
- Implemented CodeGyaan CourseBuilder, a **backend-driven** solution allowing instructors to create and publish courses efficiently, with a structured curriculum and **video streaming** support, enabling students to purchase courses seamlessly.
- Integrated **Razorpay** for secure **payment** processing and optimized backend performance using **Redux** for efficient **global state management**, ensuring smooth data flow and improving system scalability.

Chat App | Techstack: **PERN Stack**, TypeScript, TailwindCSS, Socket.io, JWT, Zustand

 [Live Link](#)

- Developed a high-performance **real-time** chat application using the PERN stack, enhancing communication efficiency with **Socket.io**, achieving **99.9% uptime** and seamless online user status updates with an intuitive **UI**.
- Implemented a secure authentication and authorization system with **JWT**, strengthening access control and ensuring **100% data protection compliance**, while maintaining a seamless **frontend** experience.
- Optimized global state management using **Zustand** and enforced rigorous **error handling** across frontend and backend, improving system stability by **40%** and reducing crashes, resulting in a smoother **UI**.

A Portfolio of all the Projects I tailored can be viewed at my Portfolio Projects Section:

 [Portfolio](#)

Achievements and Extra-Curricular

- GDGC AEC CP Lead**: Earned this position by clearing several competitive rounds.
- Coding Competition Achievement**: Secured 2nd position among 100 participants in a college coding competition.
- DSA Proficiency**: Solved over 300 DSA questions on LeetCode and GeeksforGeeks.
- Organized CP Competition**: Successfully organized a competitive programming competition.