

Abu Sadat Ansari

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PROFESSIONAL SUMMARY

Full-stack developer and AI engineer with experience in Next.js, Node.js, Nest.js, PostgreSQL, Redis, vector databases, RAG systems, and Agentic AI workflows. Built scalable APIs, voice assistants, AI video pipelines, and backend systems while contributing to frontend optimization, asynchronous processing, and production reliability. Strong understanding of system design, queue-based architectures, performance optimization, and building scalable, user-focused products.

EDUCATION

Bachelor of Technology in Computer Science CGPA-7.90 UEM Kolkata (IEM Newtown)	2022 - 2026 Kolkata, India
Class XII CBSE 70.3% D.A.V Public School	2021-2022 Raniganj, India
Class X CBSE 90.6% D.A.V Public School	2019-2020 Raniganj, India

WORK EXPERIENCE

Software Engineer Intern **Dec 2025 - April 2026**
SystemStar Wilmington, Delaware, US (Remote)

- Developed scalable backend modules and APIs using NestJS and also contributed on their own product [HeatFleet](#), an online heating oil marketplace
- Built a multi-assistant voice AI workflow using VAPI with context management and assistant routing.
- Created an AI video generation pipeline using Redis queues, workers, FFmpeg, and BunnyCDN.
- Built an image-to-transcript-to-audio pipeline that extracted text from images and generated speech output using Hugging Face TTS models to automate audio generation workflows.
- Hosted the Wan 2.1 video model on Runpod GPU infrastructure and optimized resource usage.
- Improved frontend performance through image prioritization, eager loading, and faster rendering.
- Wrote automation scripts for bulk data correction and repetitive operational tasks.
- Integrated ImageKit to serve optimized AVIF/WebP images and reduce bandwidth usage.

PROJECTS

[LMS with payment integration](#) | MERN, Clerk, Stripe, Cloudinary, Webhooks

- Built a full-stack Learning Management System (LMS) similar to Udemy using React, Express.js, and MongoDB.
- Implemented Clerk authentication, Stripe payment integration, and role-based access for separate educator and student accounts.
- Developed an educator dashboard for course creation, student management, and content tracking.

[Portfolio RAG Chatbot](#) | Next.js, TypeScript, Gemini API, Tailwind CSS, Framer Motion, RAG, Vector DB

- Built a portfolio website with an integrated in-memory RAG-powered AI chatbot that answers recruiter questions using portfolio data as its knowledge base.
- Implemented context retrieval and prompt engineering to provide accurate, personalized responses.

TECHNICAL SKILLS

Languages | JavaScript, TypeScript, Python, Java, C++

Frameworks / Libraries | React, Next.js, Express.js, Nest.js, Tailwind CSS, Prisma ORM, Mongoose

AI / ML | Agentic AI, RAG, Vector Databases, Prompt Engineering, Context Management, VAPI, MCP

Developer Tools | Git, GitHub, Postman, VS Code, Redis, Docker, Figma, Adobe Photoshop

Databases | PostgreSQL, MongoDB, MySQL