

Shivam Sahu

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shsax.vercel.app

TECHNICAL SKILLS

Programming Languages: TypeScript, Python, Java, JavaScript, SQL
Backend & Infrastructure: Node.js, Express.js, FastAPI, Docker, Linux, CI/CD, Vercel, WebSocket, JWT, MVC
GenAI & Automation: LangChain, LangGraph, Smolagents, Model Context Protocol (MCP), Hugging Face
Databases: PostgreSQL, Pinecone, Neo4j, Redis, MongoDB, MySQL
Frontend & Mobile: Next.js, React.js, React Native, Expo, Tailwind CSS, Shadcn UI, GSAP, Zustand

EXPERIENCE

Inxtinct Pvt Ltd

Dec 2025 – Present

Full Stack Developer Intern

London, UK (Remote)

- Integrated the **MCP API**, reCAPTCHA v3, and rate limiting to secure the free-tier product against abuse, alongside building the SEO-optimized main website using **Next.js** and GSAP, optimizing SEO structures.
- Evaluated **Gemma 3 1B** model compatibility and prompt formats for an offline agentic product.
- Developed a full-stack gamified Ramadan mobile application using **React Native** and **Expo**, implementing **Zustand** for efficient state management to minimize redundant server queries.

PROJECTS

CodeRAG Agent – Intelligent Codebase Retrieval System Github — Live Demo

Oct 2024

Tech Stack: React, FastAPI, Tree-sitter, LangChain, LangGraph, Neo4j, Gemini API, GitHub API

- Engineered an **AI-powered code analysis system** using **Tree-sitter** to generate AST-aware code chunks and comprehensive **dependency graphs**, successfully processing codebases with **10k+ lines**.
- Designed and deployed a **multi-language repository ingestion pipeline** that extracts function definitions, resolves call hierarchies, maps import dependencies, and persists structured relationships in **Neo4j DB**.
- Implemented an **agentic workflow** with **LangChain** and **LangGraph** featuring context retrieval tools, top-k vector similarity search, and conversational memory, achieving **less than 3 sec response times**.

MeetRAG AI – Multi-Modal Intelligent Retrieval System Github

Sep 2025

Tech Stack: Next.js, FastAPI, Pinecone, PostgreSQL, Prisma, Redis, Tailwind CSS, Cloudinary

AI Models: Pixtral-12B, gemini-embedding-001, gemini-2.5-pro, OCR.space, Deepgram Nova Model

- Engineered a **real-time meeting intelligence system** capturing shared tab audio, utilizing **WebSockets** and the **Deepgram API** to transcribe real-time live conversations with **less than 100ms latency**.
- Architected a **multi-modal PDF & OCR pipeline** (100+ pages) using **Pixtral-12B** for image captioning and **Pinecone** for vector embeddings, achieving **90%+ retrieval accuracy** with Cloudinary Storage.
- Developed an **intelligent query agent** leveraging **cosine similarity** and the **Serper API** to synthesize live web data, transcribed audio, and preloaded documents into optimal responses in **under 3 seconds**.

ShareMap – Real-Time Multi-User Location Sharing Platform Github — Live Demo

Sep 2024

Tech Stack: MongoDB, Express.js, React.js, Node.js (MERN), Socket.io, MapTiler API, React Leaflet, JWT, A* Algorithm

- Built a **real-time MERN location-sharing platform** with **room-based sessions**, using **Socket.io WebSockets** for live geolocation/chat, backed by **Express.js**, **MongoDB**, **JWT**, and **Crypto.js**.
- Built a **React Leaflet UI** with **MapTiler API** and dynamic markers; integrated **A* pathfinding** for **shortest route computation** using **OpenStreetMap graph data** for optimized visualization.

DSA & PROBLEM SOLVING

- Problem Solving:** Solved **600+ problems** on LeetCode with a max rating of **1692** and **100+ problems** on Codeforces, mastering data structures, dynamic programming, and graph theory.
- LeetCode:** Secured **Global Rank 2434** in Weekly Contest 490, competing against **40,000+** participants.
- CodeChef:** Secured **Global Rank 779** in Starters 221 (weekly contest), demonstrating rapid problem-solving against **17,000+** participants. [View Rank]

HONORS & ACHIEVEMENTS

- AKTU–GUVI Hackathon:** Secured **Top 10 among 400+ teams**, demonstrating innovation and rapid prototyping under competitive pressure. [Certificate] [Project]
- Academic Excellence:** Scored **2nd highest grade across all branches** in first-year B.Tech.

EDUCATION

Dr. Abdul Kalam Technical University, Lucknow

2022 – 2026

B.Tech – Information Technology – **CGPA – 8.0**

Lucknow, Uttar Pradesh