

SANTANU MAJUMDER

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SUMMARY

I enjoy building software with minimal reliance on external packages, to deepen understanding and maintain control over the codebase.

SKILLS

Backend: Python, FastAPI, Django, Django Rest Framework, Celery, RabbitMQ, Kafka

Frontend: JavaScript, TypeScript, Vue.js, Svelte, Astro, Tailwind, CSS, HTML

Database: MongoDB, PostgreSQL, IndexedDB, MySQL, Vector Databases

DevOps: Git, Docker, GitHub Actions, Ansible, Terraform, AWS, Azure

WORK EXPERIENCE

Freelance Full-Stack Developer | Remote

09/25 - 10/25

- Pallab Photography [link](#): Developed a high-performance, animated portfolio using TypeScript, Next.js, and Sanity CMS, achieving 100% SEO, 100% Best Practices, and 94% Accessibility Lighthouse scores.
- Engineered a seamless Tailwind CSS interface and implemented SEO strategies that increased organic search visibility by >50% within the first month

PROJECTS

Real-time Messaging Application - [Github](#)

- Built a comprehensive messaging platform featuring real-time status updates, file transfers via AWS S3, and peer-to-peer Voice/Video calling using WebRTC.
- Engineered a backend using FastAPI and Redis that supports 100's of concurrent WebSocket connections with sub-100ms latency.

AKSPDF – RAG-based AI Application - [Github](#)

- Developed a Retrieval-Augmented Generation (RAG) system using Python and FastAPI to process large PDF documents and provide context-aware answers via LLMs (Gemini API).
- Implemented vector embeddings using SentenceTransformers and PostgreSQL for efficient document retrieval and storage.

svelte-pdf-kit – NPM Package - [Github](#)

- Created and published a lightweight Svelte package for multi-page PDF viewing, currently surpassing 200+ downloads on the NPM registry maintaining a lightweight 9.54KB bundle size.
- Leveraged PDF.js and Svelte to provide a scrollable, high-performance viewer with an easy-to-integrate API for the developer community.

VenomTech – Creator E-commerce Platform

- Engineered an all-in-one creator platform for tech influencers, Integrated Razorpay to process payments with a 99.9% transaction success rate and synced 1000+ videos via the YouTube Data API.
- Implemented a custom OAuth/JWT authentication system and built a robust backend using Django and PostgreSQL to handle commerce and content management.

EDUCATION

Bachelor's in Computer Science

Class XII

North Bengal University, 8.05/10

Kendriya Vidyalaya Gandhinagar

2023 - Present

2022

INTERESTS

DIY Electronics | Engineering | Arch Linux (Hyrpland)