

# NISHANT SHARMA

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Backend Software Engineer shipping production APIs, RAG/AI pipelines, and cloud infrastructure end-to-end

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, SQL

**Backend:** Node.js, Express.js, FastAPI, JWT/OAuth

**Databases:** PostgreSQL, Prisma ORM, pgvector

**AI/ML:** RAG Pipelines, Vector Search, Embeddings, LLM Integration, Whisper, Vercel AI SDK

**Cloud & DevOps:** AWS (EC2, RDS, S3), Docker, GitHub Actions, CI/CD, Nginx, Linux, Cloudflare

**Frontend:** React.js, Next.js, Tailwind, Shadcn, HTML/CSS

**Practices:** Git, Agile/Scrum, System Design, Unit Testing, Data Structures & Algorithms

## EXPERIENCE

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**Full Stack Developer Intern** | Zytexa Technology LLP, Jaipur

July 2026 - Aug 2026

TypeScript, Node.js, Express, PostgreSQL, Prisma, React.js

- Building a three-sided **property-verification marketplace** end-to-end - 18 Prisma/PostgreSQL models and 106 REST endpoints behind role-isolated JWT auth (buyer / seller / admin) that makes cross-role token reuse structurally impossible.
- Engineering the marketplace's money logic - seller earnings, settlement and refund APIs, with commission splits frozen on the purchase row at transaction time so historical records stay correct even as policy changes.

**Software Engineer Intern** | Pratham Softwares, Jaipur

March 2026 - June 2026

Java, Spring Boot, MySQL, TypeScript

- Developed the **backend** of an **employee-appraisal platform**, designing a layered **Spring Boot** service on **MySQL** with DTO-isolated API contracts and global exception handling.
- Implemented **Spring Security 6** with **JWT**-based role access for HR, manager, and employee actors, exposing REST endpoints consumed by the team's React + TypeScript dashboard.

## TECHNICAL PROJECTS

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**VizTube - Video Platform Backend with AI-Powered RAG** | [GitHub](#) | [Live API](#)

August 2025 - Present

TypeScript, Node.js, Express, PostgreSQL, pgvector, Prisma, Docker, AWS, FastAPI

- Engineered a RAG pipeline - a decoupled **FastAPI** microservice streams audio to **Groq whisper-large-v3**, embeds chunks locally with **all-MiniLM-L6-v2**, and answers through **pgvector** search with cited sources.
- Runs live on a 1 GB-RAM **EC2 t3.micro** by design - **pgvector** inside **Postgres** (no separate vector DB), cloud **Whisper** transcription - 3 **Docker** containers shipped via **GitHub Actions CI/CD** behind **Nginx SSL** and **Cloudflare**.

**Echolnbox - Anonymous Messaging & AI-Assisted Response Platform** | [GitHub](#) | [Live Site](#)

June 2026 - July 2026

Next.js, TypeScript, PostgreSQL, Prisma, NextAuth, Vercel AI SDK, Groq

- Built a live anonymous-messaging platform with a custom **NextAuth** credentials flow - 6-digit expiring email verification via **Resend**, **bcrypt**-hashed passwords, and **Zod** validation on every input.
- Designed a cascade-safe **Prisma** schema - transactional account deletion, relational integrity, indexed retrieval.
- Integrated **Groq Llama 3.3** via **Vercel AI SDK** with **Zod**-enforced structured suggestions and parallel dashboard loads.

## OPEN-SOURCE CONTRIBUTIONS

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**ed-donner/llm\_engineering** | 7k+ Stars | 2 PRs merged, 1,400+ lines | [Repo](#)

June 2026 - Present

- [#3631](#) Built an **LLM cost meter** patching the **OpenAI** client in place to track tokens and spend across 8 providers.
- [#3492](#) Shipped a local **RAG** course navigator (Gradio UI) - offline sentence-transformers embeddings, OpenRouter Q&A.

## EDUCATION

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- Bachelor of Computer Applications** | S.S. Jain Subodh PG College, Jaipur | 2024 – 2027

## CERTIFICATIONS

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- Microsoft GitHub Foundations** | [Verify](#)
- Back End Development & APIs - FreeCodeCamp** | [Verify](#)

## ACHIEVEMENTS

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- Twice recommended by the **Indian Air Force** through its 5-day **SSB**, a multi-stage assessment of **leadership**, **psychology**, and **decision-making** under **pressure**.
- Solved 150+ **algorithmic** problems across [LeetCode](#), [Codeforces](#), and [HackerRank](#).