

NITESH SHARMA

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SUMMARY

Software Engineer with 2+ years of experience building scalable full-stack and AI-powered applications. Worked across RAG pipelines, knowledge graphs, and MCP servers, along with the backend and cloud infrastructure behind them. Experienced in developing production-ready products, solving complex engineering problems, and taking features from concept to deployment.

EXPERIENCE

Bytebell

Full-time

Apr 2024 -- Present

Delhi, India (Remote)

Software Engineer-2

May 2026 -- Present

- Built the containerized distribution pipeline – versioned release packaging, **Docker Compose** stacks, deployment and licensing manifests in **etcd**, **HAProxy** routing, and signed image publishing to a private registry – letting customers run the full stack in their own environment
- Shipped a self-updating system service that pulls signed images from the private registry, keeping single-tenant on-premise installations current with no manual upgrade work from the customer
- Built **OAuth 2.0** integrations with **GitHub**, **GitLab**, and **Google** – including GitHub Apps and GitLab REST APIs – letting organizations securely connect their accounts and repositories to the platform
- Established multi-organization access control with **RBAC**, per-org data isolation, and super-admin roles, enabling a single deployment to serve multiple enterprise teams
- Built an email notification system to alert users on key events (ingestion completion and deployment/system status), with queued delivery and automatic retries so notifications are retried instead of lost
- Cut end-to-end processing time by **30%** and infrastructure cost by **40%** through pipeline batching and query optimization
- Deployed the platform to client-owned servers on **AWS** and **GCP**, handling infrastructure setup and production issues end to end
- Resolved **150+** production issues across client deployments, delivering fixes within agreed timelines

Software Engineer-1

Apr 2024 -- May 2026

- Built and shipped a hybrid **B2B SaaS** AI developer-knowledge platform – RAG and knowledge-graph search over code repositories and documents, delivered both as multi-tenant cloud and as a self-hosted enterprise package
- Developed the content ingestion system letting companies add **Git repositories**, **websites**, **PDFs**, and **images**, then query them in natural language through a **Pinecone**-backed RAG pipeline
- Built the **MCP server** exposing retrieval to coding agents, with session management, persistent connections, and per-user API keys
- Shipped client surfaces including a **VS Code extension** and an **Electron** desktop app for managing locally running models
- Designed the **chat system** with per-user persistent context, letting users save and reuse their own knowledge across conversations

Coding Ninjas

Part-time

Jan 2024 -- Apr 2024

Delhi, India (Remote)

Teaching Assistant

- Resolved **100+** student questions on competitive programming, data structures, and algorithms
- Mentored **50+** students, helping them work through complex competitive programming concepts

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, C, Bash

Infra & DevOps: Docker, Docker Compose, Kubernetes, multi-stage builds, container registries (AWS ECR, Docker Hub private), etcd, AWS (EC2, S3, ECR, ELB, IAM, CloudWatch, Secrets Manager), HAProxy, GitHub Actions, PM2

AI & LLM: RAG pipelines, knowledge graphs, chunking strategies, embeddings & vector search, MCP servers, LLM APIs (Anthropic, OpenAI, Gemini, OpenRouter), token cost metering, Langfuse

Backend: Node.js, Bun, Fastify, Express, REST & SSE APIs, BullMQ, RabbitMQ

Databases: MongoDB, Neo4j, Redis, Pinecone, S3

Frontend: React, Vite, Astro, TailwindCSS, shadcn/Radix, TanStack Query

Auth & Integrations: OAuth 2.0 (GitHub, GitLab, Google), GitHub Apps, GitHub & GitLab REST APIs, JWT, RBAC, multi-tenancy

EDUCATION

Chandigarh University

B.Tech in Computer Science & Engineering

2020 -- 2024

7.7/10 CGPA

ACHIEVEMENTS & CERTIFICATIONS

- Ranked **1760** globally in [Codeforces](#) Round 726
- Maintained a **4.8/5** average rating as a Teaching Assistant at Coding Ninjas
- Certifications: [MERN Stack](#) (Coding Ninjas, 140h), [Competitive Programming](#) (Coding Ninjas, 60h), [Data Mining](#) (NPTEL, 20h)