Rishabh Chaudhary

Full Stack Engineer · AI / LLM Systems

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Full stack engineer with **4 years** shipping production TypeScript systems, now building **LLM products** with **Python** end to end: **RAG, agent orchestration, and evals**, plus the Node.js and Kubernetes infrastructure beneath them.

EXPERIENCE

Full Stack Developer · Tecnoprism

Sep 2025 to Present

RPA bot builder: a platform for designing, deploying, and monitoring automation bots

- Took the bot builder **from design to production** on a **15+ service** event driven Node.js platform (RabbitMQ, BullMQ), deployed to **Kubernetes via Helm**.
- Built the product's **RAG pipeline** end to end (retrieval, ingestion, SSE streaming) with **custom evals** gating output across multiple **LLM APIs**; serves **100K+ requests a month**, load tested to **1K+ concurrent users**.
- Architected the data layer on **MongoDB with Redis** caching; redesigned schemas and indexes behind core read paths, cutting query latency by **35 to 40%**.
- Owned **observability** for the platform: structured logging, monitoring, and alerts tuned for accuracy, so real bot and service failures surface fast without alert noise.

Full Stack Developer · Alois Solutions

May 2023 to Aug 2025

- Migrated a production **ERP and CRM platform** of **hundreds of modules** from **legacy Java to Next.js + Express.js** on PostgreSQL as part of the core team, porting complex business logic while the old system stayed live.
- Optimized queries on a **1,000+ table schema** with **complex joins**, targeted indexes, and **cursor based pagination**.
- Rebuilt the frontend in **Next.js** with centralized state management; **virtual scrolling** cut render time by **~40%**.
- Maintained **self hosted production servers** and owned CI/CD (GitHub Actions, Nginx) with **zero downtime releases**.

PROJECTS

UseFrame · useframe.in

Solo build · Live

AI website builder: a business idea or reference URL in, a researched, generated, and hosted site out

- **Generates a full site from one prompt** through planner, research, structure, design, copy, SEO, and critique agents streamed live over SSE, routing free users to DeepSeek and paid users to Claude to control unit cost.
- **Grounds layout, color, typography, and copy framework choices in cited research** via hybrid retrieval (pgvector + full text, RRF, Cohere rerank, HyDE), plus a semantic cache gated by 90% shadow mode agreement.
- **Evals catch invented citations**, schema breaks, and sites that drift from the design brief, with recall@5 and MRR for retrieval; CI blocks migrations that would drop vector or full text indexes.
- **Keeps generation off the request path:** 9 services (web, API, orchestrator, research, scoring, billing, worker, deploy, edge) in a Turborepo, with crawls, audits, and builds on BullMQ workers and Zod contracts shared end to end.
- **Publishes sites in seconds** to *.useframe.in on Cloudflare Workers and R2 with rollback, all in Terraform.

AI Startup Builder · Idea to deployed app

Side project

- Takes a founder from idea to shipped app through **18 specialized agents** across six phases, from validation to growth.
- **Controls token cost** by choosing context per agent task: direct injection for small docs, task aware compression for mid size ones, and contextual RAG beyond that, with per user token budgets.

SKILLS

AI / LLM	Python, RAG (hybrid search, reranking, HyDE), agent orchestration, LLM routing, evals, Vercel AI SDK, LangChain, LlamaIndex, pgvector, Qdrant, Langfuse
Backend	TypeScript, Node.js, Express, FastAPI, PostgreSQL, MongoDB, Redis, SQLAlchemy, BullMQ, RabbitMQ
Frontend	React, Next.js, TanStack Query, Zustand, Redux, Tailwind CSS, Web Performance
Infra / DevOps	Docker, Kubernetes, Helm, Terraform, AWS, Azure, GitHub Actions, Argo CD
Open Source	Merged contributions to **twentyhq/twenty** and **novuhq/novu**

EDUCATION

Bachelor of Computer Applications · Maharaja Sayajirao University of Baroda

2020 to 2023 · CGPA 8.1