Nikhil Rajpurohit

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Education

Dr. D. Y. Patil College of Engineering 2023 – 2027
B.E. Electronics and Telecommunication Engineering, CGPA: 8.2 *Pune, India*

Experience

WiredLeap Apr 2026 – Jun 2026
Software Engineer Intern *Remote*

- Built CMS and CRM features with Next.js, React, Vite, and Radix UI, from frontend workflows to backend integration.
- Developed REST APIs with JWT authentication, validation, error handling, and role-based access.
- Integrated Razorpay payments end to end: server-side order creation, checkout, and payment signature verification before confirming orders and also added Cloudinary-based media management.
- Deployed and managed multi-service production systems on AWS EC2 using Docker Compose, PM2, and systemd.

Projects

Thred | *TypeScript, Node.js, Express, Next.js, MCP, HydraDB, PostgreSQL, Turborepo* Live | GitHub

- Memory layer for coding agents (Cursor, Claude Code, Codex), exposed as an MCP server, that carries decisions, facts, and handoffs from one session to the next.
- An LLM turns each session into small claims, each linked to its source messages, files, and session. When a fact changes, a `SUPERSEDES` edge links the new claim to the old one, so agents get the current value, and the server returns `NOT_FOUND` when the history doesn't support an answer.
- Retrieval combines HydraDB graph context with PostgreSQL metadata, and every answer cites the claims it came from.
- Cut checkpoint latency by running independent revision lookups in parallel (up to 5 at a time) while keeping revisions of the same fact in order, and capped retries on user-facing calls at 30s so requests fail fast instead of hanging.
- Evaluated on LongMemEval, LongMemEval V2, and BEAM, including a 44-session, roughly 128K-token case answered with 100% accuracy.

getcta | *Electron, React, Next.js, Express, Prisma, PostgreSQL, OpenAI, Composio* Live

- Paid macOS teleprompter that sits in the MacBook notch and scrolls the script as you speak; shipped 8 releases.
- Voice-follow uses Apple's on-device speech recognition to track the line being spoken and scroll in sync, kept light enough to run through long recording sessions.
- AI script writing and editing on LLMs, plus Composio MCP integrations that pull content from connected apps like notion google drive
- Browser-based desktop sign-in; Pro plan on Dodo Payments with webhook emails via Resend.

nmemo | *Next.js, Node.js, Express, TypeScript, PostgreSQL, Prisma, Qdrant, Voyage AI* Live | GitHub

- Open-source context engine for AI apps: retrieves from documents and connected tools, ranks results, removes duplicates and conflicts, fits them into a token budget, and returns them with citations.
- RAG pipeline: PDF ingestion, chunking, Voyage embeddings, and Qdrant search.
- OAuth connectors with token refresh, searched alongside uploaded documents, plus workspace API keys.
- Turborepo with a Next.js dashboard, Express API, CLI, and TypeScript SDK (`nmemo-sdk`).

Zellr | *Next.js, Node.js, Express, TypeScript, Redis, Cloudflare R2, Docker* GitHub

- Vercel-style deploy platform: paste a public GitHub URL and get a live static site on its own subdomain.
- Upload service clones the repo, stores the source in Cloudflare R2, and pushes a job onto a Redis queue; a deploy worker picks it up, runs the build, and uploads the output back to R2.
- Deploy status lives in a Redis hash (uploaded, deployed); the Next.js frontend polls it every 2s and shows the live URL once the build finishes.
- A request handler serves each site from R2 based on its subdomain; all four services run as a Turborepo monorepo under Docker Compose.

Technical Skills

Languages: TypeScript, JavaScript
Frontend: React, Next.js, Vite, Tailwind CSS, Zustand, Electron
Backend: Node.js, Express, REST APIs, WebSockets, JWT, Zod
Databases: PostgreSQL, Redis, MongoDB, Qdrant, pgvector
AI: RAG, embeddings, vector search, MCP servers, LLMs
Infra & Tools: Turborepo, Prisma, Drizzle, Supabase, Paper, Git, Linux, Docker, Cloudflare R2, AWS S3