

HITESH PAL

Senior Full Stack Engineer & Technical Leader

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Built and led a **6-member engineering team from zero**, architecting production B2B ERP systems, AI automation that eliminated **90% of manual operations**, and a legal intelligence platform over **20,000+ Supreme Court judgments**.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, TypeScript, React.js, Node.js, NestJS, Next.js, Express.js

Databases & State: MongoDB, PostgreSQL, MySQL, Redis | Redux, Zustand

Messaging & Real-Time: RabbitMQ, BullMQ, Socket.IO, WebSockets

Cloud & DevOps: Docker, Kubernetes, GitHub Actions, AWS (EC2, S3, SES, CloudWatch, ASG), DigitalOcean

AI & Integrations: OpenAI GPT-4 Vision, Anthropic Claude, Shopify Admin API, WATI (WhatsApp), n8n

UI & Testing: Tailwind CSS, Ant Design, Chart.js, Three.js / React Three Fiber | Jest, Enzyme, Apache Bench

WORK EXPERIENCE

[Dukaan Dost](#) • Mumbai, India Aug 2023 – Present

Senior Full Stack Engineer & Technical Leader

- Built the engineering team **from zero** — hired **all 6 engineers independently**, including **2 intern-to-full-time conversions**; interns contributed to production features **within 4 weeks**. One converted hire **independently owns the entire inventory module end-to-end** (production-to-customer flow, Shopify integration, barcode scanning) with no day-to-day oversight.
- Architected **DD-ERP** — a full-stack **B2B ERP platform** built on React 18, Node.js/TypeScript, RabbitMQ microservices, **80+ MongoDB models**, and **100+ permission-guarded routes**; established 1-week sprint cycles, code review conventions, and branching strategy from scratch across a **6-member team**.
- Achieved **3x API performance improvement** by leading AWS migration, containerization, and zero-downtime CI/CD adoption across the platform; reduced page load times from **60s to 5s** and established **Prometheus/Grafana observability dashboards and centralized ELK logging** for proactive monitoring and incident investigation across distributed services.
- Designed a **dual-AI OCR pipeline** (GPT-4 Vision + Anthropic Claude), extracting structured data from handwritten packing lists, processed async via BullMQ — eliminated **~90% of manual data entry**; broader automation reduced manual operations by **70%**.
- Engineered a **custom RBAC system** (Module→SubModule→Action) with two-tier in-memory + Redis caching, audit logging, rate limiting, and dynamic IP blocking — built to **production security standards without a third-party vendor**.
- Built an **AI natural-language task system** where employees describe work in plain text and OpenAI structures it into complete tasks via an in-app chat UI; also built a **standalone notification microservice** (in-app, WhatsApp, email) with RabbitMQ per-channel queueing, MD5 dedup, and delivery tracking.
- Developed **event-driven ERP integration** — a Node.js microservice consuming real-time stock and balance events from **Busy ERP via RabbitMQ** (auto-reconnect, gzip compression) with **bidirectional master-data sync across 8+ entity types**; decoupled legacy ERP from modern stack without disrupting live operations.
- Built a **Socket.IO real-time collaboration layer** enabling live multi-user interactions across the platform designed alongside a standalone notification microservice to handle **in-app, WhatsApp, and email delivery** with per-channel RabbitMQ queueing and **MD5-based deduplication**.

[Priyam Innovations](#) • Bangalore, India Jun 2021 – Jul 2023

Full Stack Developer

- Built a **MERN billing & revenue management platform** across **10+ retail stores** — implemented **RBAC**, full e-commerce features (search, wishlist, cart, checkout, payments), and responsive UI in Tailwind CSS.
- Reduced stock shortages by **50%** and improved restocking efficiency by **60%** through optimized inventory workflows and an **automated cross-platform stock sync** via a Node.js event handler.

PROJECTS

[HelloVakeel](#)

- AI-powered legal intelligence platform for the Indian legal ecosystem
 - Collected and indexed a **proprietary dataset of 20,000+ Indian Supreme Court judgments** — built a hybrid RAG pipeline combining **PostgreSQL BM25 + pgvector cosine similarity** (OpenAI text-embedding-3-large) + **Cohere Rerank 3**, exposed via a single SQL function with dynamic JSONB filters.
 - Designed an **8-step case analysis pipeline** (brief extraction, precedent retrieval, loophole detection, evidence scoring, verdict probability) **streaming over SSE** with hallucination guardrails verifying every citation against source metadata; built **async document ingestion** (Celery + Redis) with pdfplumber and **AWS Textract fallback for handwritten FIRs**, plus a document-type classifier routing uploads to type-specific prompts.
 - Built an **AI-powered TipTap editor** with custom nodes for inline rewrite, expand, simplify, and section verification (Claude Sonnet over SSE), plus a **highlight-to-template builder** converting selected text into `{{dynamic_fields}}` for reusable legal document templates.
- Stack:** Next.js 14, FastAPI, Supabase Postgres 16 (pgvector + RLS), Clerk auth.