

# YASH RAWAL

Forward Deployed Engineer · Full-Stack / Founding Engineer

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## SUMMARY

Full-stack engineer who scopes, builds, and deploys production software end-to-end. Shipped four production applications across two backend ecosystems — Node/TypeScript and Python/FastAPI — three with live clients, including an 80+ module multi-tenant hospital SaaS running in real hospitals and a student mental-health platform live on iOS and Android. Two years of professional experience spanning data analytics (advanced SQL, ETL, Tableau), healthcare IT consulting, and AI enablement; trained 3,000+ learners on AI fundamentals through the IBM SkillsBuild programme. Builds with agentic AI tooling (Claude Code) and owns every architectural decision.

## TECHNICAL SKILLS

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

**Backend:** Node.js, Express, FastAPI, REST APIs, JWT auth (access + refresh), async/await, background queues (BullMQ)

**Frontend / Mobile:** React 19, Next.js 14 (App Router), React Native, Expo, Capacitor, Tailwind CSS, Zustand, TanStack Query

**Data:** PostgreSQL 16/17, advanced SQL (joins, CTEs, window functions), Prisma, asyncpg, Redis, PgBouncer, ETL, DBT

**Analytics / BI:** Tableau, Power BI, Google Data Studio, Excel, data modelling & cleaning

**Infrastructure:** Oracle Cloud (OCI), Linux, nginx, Docker & Compose, PM2, Let's Encrypt, Cloudflare, OCI Object Storage, cron backups

**AI / LLM:** Anthropic Claude API, Google Gemini, prompt engineering, structured context injection, domain-constrained system prompts, AI workflow automation (n8n)

**Domain:** Healthcare IT — NABH, ABHA, RGSH compliance; clinical & hospital workflows

## SELECTED PRODUCTION SYSTEMS (BUILT SOLO, AI-ASSISTED)

**SevaSangraha HMS — Multi-Tenant Hospital Management SaaS** | *React · TypeScript · Node/Express · PostgreSQL · Oracle Cloud*

- Scoped, built, and deployed an 80+ module hospital platform in live use at Magnus Hospital (multi-specialty) and Achintya Physiotherapy — spanning front desk, OPD/IPD, pharmacy, lab, billing, HR/payroll, and NABH compliance.
- Architected multi-tenant isolation — per-row hospital\_id, JWT-encoded tenant context, and dynamic module gating per client tier — across 7 live HTTPS domains with zero cross-tenant data leakage.
- Ran production infrastructure on Oracle Cloud: nginx reverse proxy with SSL termination, PM2 zero-downtime restarts, hot-standby PostgreSQL with manual failover, and cron-based encrypted backups.
- Senior architecture calls made and owned: raw SQL over an ORM for complex clinical queries; a compatibility shim that migrated the entire data layer with zero frontend refactor; lazy-loaded code splitting across 3,700+ build modules.

**Ambrin / Snowflakes Counselling — Student Mental-Health Platform** | *Next.js · Node/Express · PostgreSQL · Prisma · React Native · Docker*

- Shipped a four-surface product — web, iOS, Android, and marketing site — on one shared API; live on Google Play and the Apple App Store for real school and college clients.
- Built multi-tenant, role-scoped clinical workflows (PHQ-9 / GAD-7 screeners with band scoring, parental-consent gating for minors, counsellor booking) with DPDP-aligned consent flows and audit logging.
- Proved capacity with k6 load testing (~9k rps on cached paths) after tuning PgBouncer, PostgreSQL, Redis, and nginx micro-caching; staging-first release flow with git-tag production deploys.

**Jyotish SaaS — Vedic Astrology Computation Platform** | *Python · FastAPI · PostgreSQL · React · Capacitor · Claude & Gemini APIs*

- Built a production FastAPI backend — 50+ async routers over raw SQL (asyncpg) — driving a 65-module astronomical computation engine on the Swiss Ephemeris, plus client CRM and subscription tiers.
- Integrated Anthropic Claude and Google Gemini for chart interpretation using structured context injection (planetary data serialised into the prompt) and domain-constrained system prompts.
- Shipped iOS and Android via Capacitor over the existing React codebase; resolved production dependency and CORS issues across dev, production, and mobile URL schemes.

## PROFESSIONAL EXPERIENCE

**Lead Engineer** — Indic Labs — software & data studio | *Udaipur* | 2025 – Present

- Build and ship production web, mobile, data-analytics, and AI-automation systems for Indian, US, and Gulf clients; the production systems above were architected, deployed, and are maintained here.
- Own delivery end-to-end: scoping ambiguous client requirements into technical specs, architecting and building the system, deploying to cloud infrastructure, and supporting it live with real users.
- Work directly with non-technical stakeholders — hospital administrators, clinicians, and business owners — translating operational workflows into shipped software.

**AI Trainer** — IBM SkillsBuild Programme (via CSRBOX) | November 2025 – February 2026

- Delivered structured AI training to technical and non-technical learners; taught 3,000+ students across multiple batches, online and offline.
- Taught AI fundamentals, chatbots and conversational AI, Large Language Models, and AI applications in healthcare; built presentations, demos, and practical examples, adapting content to learner background and pace.

**IT Consultant & AI Automation Specialist** — VALANT Hospital Group (Udaipur, Madhuvan, Bhilwara) | August 2025 – Present

- Designed and built a CRM system for multi-location hospital operations, streamlining patient management and administrative workflows across three facilities.
- Implemented IT regulatory compliance to NABH, ABHA, and RGSB guidelines; delivered tailored dashboards and automated reporting that improved team efficiency.
- Developed AI automation workflows to reduce manual hospital processes, and trained senior management on applied AI in healthcare.

**AI Solutions Developer & Technical Consultant** — Astrowings | Remote | June 2025 – Present

- Architected AI-led automation workflows for cross-functional teams, reducing manual task completion time by ~30%.
- Built the company website with integrated AI features; leading development of a mobile application with AI-powered functionality.
- Advise leadership on AI adoption strategy and implementation roadmap.

**Data Analyst** — MedNext Pharma | Udaipur (Remote) | January 2025 – July 2025

- Built interactive Tableau dashboards for real-time KPI monitoring, improving decision-making efficiency by ~15%.
- Performed data cleaning and modelling across multiple client datasets; used advanced SQL to deliver customised analytics for pharmaceutical clients.

**Data Analyst** — ArcGate — Team DoorDash | Udaipur (Remote) | August 2024 – January 2025

- Developed and optimised complex SQL queries using joins and window functions for DoorDash revenue analysis.
- Built and maintained Tableau dashboards, turning raw data into stakeholder-ready visual reports.
- Implemented ETL processes ensuring data accuracy for timely revenue analysis; led data migration and transformation initiatives using DBT.

**Data Analytics Trainee** — MedTourEasy | Remote | April 2024 – May 2024

- Completed an intensive 4-week programme in data cleaning, analysis, and visualisation using SQL, Tableau, and R.

## EDUCATION & CERTIFICATIONS

- 100x Engineers — GenAI Engineering Cohort (2026, in progress): agentic systems, RAG, context engineering, evaluations.
- Bachelor of Business Administration, Finance — MIT World Peace University, Pune | 2021
- Healthcare IT Compliance (NABH, ABHA, RGSB) · Advanced SQL & Database Management · Tableau and Power BI Dashboard Development · AI Automation and Workflow Optimisation