

Ganpati Kumar

BACKEND ENGINEERING · DATABASE ENGINEERING · REST API DESIGN · WORKFLOW AUTOMATION

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Vadodara, India

SUMMARY

B.Tech CSE engineer (Parul University, 2025–2029) who builds and ships production backend systems. Three systems deployed in Year 1 — a 22-table PostgreSQL ERP, a FastAPI spaced-repetition SaaS, and an AI-integrated trip platform. Core focus: relational schema design, event-driven architecture, REST API contracts, and RBAC-enforced authentication.

TECHNICAL SKILLS

Languages	C, C++, Python, JavaScript, TypeScript, SQL
Backend	Node.js, Express.js, FastAPI, Pydantic, REST API Design, JWT Auth, RBAC, Middleware
Frontend	React 19, Vite, Tailwind CSS, Framer Motion, Zustand
Databases	PostgreSQL, SQLite, Supabase, SQLAlchemy, Schema Design, Database Normalization
DevOps & Infra	Git, GitHub Actions, Vercel, Firebase, Uvicorn, CI/CD
Core Concepts	Data Structures & Algorithms, OOP, DBMS, ACID Transactions, Event-Driven Systems, OS

PROJECTS

B-Cart — Manufacturing ERP

React 19 · Node.js · Express.js · PostgreSQL · JWT

- Designed a normalised 22-table PostgreSQL schema across 8 business domains (procurement, BOM, manufacturing, inventory, sales) with 4 database views and Moving Average Costing for real-time stock valuation.
 - Built an event-driven, append-only stock ledger enforcing ACID-compliant state transitions: Sales Order → Inventory Reservation → Manufacturing Order → Work Dispatch → Stock Commit.
 - Secured all API routes with stateless JWT access + refresh tokens; enforced RBAC at controller layer with audit logging.
- Finalist — Odoo × Parul Hackathon 2026, 50+ teams.**

ExamForge — GATE Preparation SaaS

TypeScript · FastAPI · SQLite · Supabase · GitHub Actions

- Architected a hybrid data layer — SQLite for static content (sub-millisecond reads, zero network overhead) and Supabase PostgreSQL for real-time cross-device state sync — decoupling reads from writes by access pattern.
- Built a type-safe FastAPI backend with strict Pydantic validation, Bearer JWT auth, and an SM-2 spaced repetition engine; automated deployments via GitHub Actions CI/CD.

Traveloop — Trip Lifecycle Management

Node.js · PostgreSQL · Gemini AI · PDFKit

- Designed an 11-table relational schema (25 seeded cities, 57+ activity mappings); 30+ REST endpoints across 9 Express modules with a uniform {success, data, meta} response contract.
- Integrated Gemini AI for packing list generation with offline fallback; implemented PDFKit invoice streaming as binary blob; JWT + bcrypt auth with role-aware admin analytics.

EXPERIENCE

Full-Stack Web Consultant

Apr 2026 – Jun 2026 · Freelance

SoundRich Hearing · Delhi NCR (Remote)

- Identified 8 structural issues — 4× duplicate navigation rendering, zero JSON-LD structured data across 10+ clinic pages, and broken heading hierarchy on all service cards — delivering a prioritised remediation roadmap with effort estimates.
- Engineered and deployed a production landing page on Vercel; executed a zero-downtime DNS migration from WordPress; owned the full engagement from audit presentation to technical handoff.

EDUCATION

B.Tech — Computer Science & Engineering

2025 – 2029

Parul University, Vadodara, Gujarat

CGPA: 7.85 / 10

ACHIEVEMENTS

- Selected as Finalist** — Odoo × Parul University Hackathon 2026 among 50+ teams; presented B-Cart, a full-stack manufacturing ERP.
- Independently secured** and delivered a paid freelance engineering contract with SoundRich Hearing, Delhi NCR, in Semester 2.

CERTIFICATIONS

HTML & CSS Specialist

Certiport · A Pearson VUE Business

Issued Mar 2026 · Credential: yFTL-uTn8

INTERESTS

GATE CSE 2028 · Database Internals
Distributed Systems · System Design
Competitive Programming