Prabesh Sharma

Full-stack and backend software engineer

Nepal hellpuff.dev github.com/hellpuffyt linkedin.com/in/prabeshsharma

I run Data Doodles Tech, where I design and build software for Nepali businesses: a jewellery ERP and billing system, B2B airline ticketing, and an online marketplace that takes Khalti, eSewa and Fonepay payments. Most of my work is backend and data: multi-tenant PostgreSQL, money that has to add up exactly, and tests that run against real databases. Outside client work I write systems software in Rust and Go, and small developer and security tools.

TECHNICAL SKILLS

Languages	TypeScript, Python, Rust, Go, SQL
Backend & data	Node.js (Express, NestJS), FastAPI, Prisma, SQLAlchemy & Alembic, PostgreSQL, Redis
Frontend	React, Next.js, Vite, Tailwind CSS
Infrastructure	Docker, Kubernetes, Vercel, Cloudflare Workers, Neon, GitHub Actions CI/CD
Practice	Multi-tenant isolation (schema-per-tenant, row-level security), payment integration (Khalti, eSewa, Fonepay), double-entry ledgers, end-to-end and property/fuzz testing

EXPERIENCE

CEO, Data Doodles Tech

2024–present · Nepal

I design and build the company's products. The code is private; each product has a case study on hellpuff.dev.

Kinamna · Deployed — hellpuff.dev/work/kinamna

Multi-vendor marketplace with a storefront, seller portal and admin console on one API

- 183-endpoint API in production on Kubernetes with Neon PostgreSQL.
- Khalti, eSewa and Fonepay payments are verified on the server: amounts are recomputed from stored line items, the gateway lookup decides the status, and a state machine settles each order once.

DataJewellers · Sita Shree Gold System · Commercial · deployed — hellpuff.dev/work/datajewellers

Jewellery ERP and billing (multi-tenant SaaS), and the first shop running it in production

- One deployment serves many businesses, each in its own PostgreSQL schema, and a dedicated test suite checks that tenants can't see each other's data.
- Prices by weight, purity, making charge and wastage, using exact decimal arithmetic. Supports the Nepali fiscal calendar and PAN/VAT, and maps the tax authority's e-billing rules in a compliance matrix. It is not IRD certified.

TimeTravel · Commercial — hellpuff.dev/work/timetravel

B2B airline ticketing platform for travel agencies

- A fare is held with a timed lock on a partial unique index, so it can't be sold twice.
- Booking and wallet debit happen in one transaction, as do cancellation and refund. Agencies get credit lines, and top-ups need admin approval.

OPEN SOURCE

eBPF-KernelTrace-MCP · Experimental — github.com/hellpuffyt/eBPF-KernelTrace-MCP

Read-only Linux process and file activity for AI assistants, over MCP (Rust, Aya)

TesseraDB · Research — github.com/hellpuffyt/tesseradb

Embedded SQL database that keeps every row version and can query the past with AS OF (Rust, no dependencies)

EDUCATION

B.Tech, Computer Science and Engineering — Graduated