

Jaimin Panchal

Backend & AI Engineer

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PROFESSIONAL SUMMARY

Backend and AI Software Engineer with 2+ years shipping production SaaS, e-commerce, and fintech platforms, including a Shopify order backend sustaining 10,000+ orders/month and five client platforms still live in production. Strongest in Laravel/PHP and TypeScript/Next.js, with production Java/Spring Boot, Python/FastAPI, and cross-platform Flutter. Builds evaluation-driven LLM systems (hybrid RAG, agentic tool calling, deterministic guardrails) shipped through DevSecOps CI/CD with SAST, DAST, and signed images. Available immediately for backend, AI, or full-stack roles, remote or relocation.

TECHNICAL SKILLS

Languages: PHP, Python, TypeScript, JavaScript, Java, Dart, SQL

Backend: Laravel, Spring Boot, Spring Security, FastAPI, Node.js/Express, REST APIs, Event-Driven Architecture, WebSockets, Message Queues (Redis), JWT/OAuth 2.0

Mobile: Flutter (Android/iOS), Firebase Cloud Messaging, Google Maps API, AdMob, In-App Purchases

AI / LLM: LangGraph, LangChain, RAG (hybrid search, RRF, cross-encoder reranking), RAG Evaluation (RAGAS, DeepEval, faithfulness, context precision), AI Agents, Tool Calling, Guardrails, Prompt Engineering, Vector Databases (pgvector, ChromaDB), Embeddings, OpenAI, Google Gemini

Security: DevSecOps, OWASP Top 10, SAST/DAST (SonarCloud, OWASP ZAP), SCA (Trivy, Snyk), Secret Scanning (Gitleaks), Image Signing (Cosign)

Databases: PostgreSQL, MySQL, MongoDB, Redis, Query Optimization, Indexing

Cloud & DevOps: Docker, Kubernetes, Helm, ArgoCD, AWS (EC2, S3), GitHub Actions, CI/CD, Prometheus, Grafana, Linux, Git

Frontend: React, Next.js, Vue.js, Tailwind CSS

Testing: pytest, PHPUnit/Pest, JUnit, Unit & Integration Testing, Code Coverage

Integrations: Stripe, PayPal, Twilio OTP/2FA, Shopify API, Google OAuth 2.0, Google Places API, Zerodha Kite API, KYC & Wallet Flows

Concepts: OOP, SOLID, Design Patterns, System Design, Caching, Scalability, Agile/Scrum

PROFESSIONAL EXPERIENCE

Freelance Software Engineer

Sep 2025 – Present

Mobile & Backend Development

Remote

- Built **Spot It Now**, a location-based Flutter wildlife-sighting app for Android and iOS, with real-time map integration, photo uploads, a feed-style sightings listing, secure authentication (sign-up / login / OTP), custom profile management, and Firebase push notifications, backed by a Laravel and MySQL admin panel for managing users, sightings, reported content, and AdMob advertising.
- Integrated REST APIs for maps, push notifications, and in-app purchases across Android and iOS.

Sapphire Software Solution

Jul 2023 – Aug 2025

Software Engineer

Ahmedabad, India

- Delivered five client platforms end-to-end across SaaS, e-commerce, fintech, and social products (Laravel, Vue.js, MySQL); all five remain live in production.
- Optimized MySQL query performance through indexing and query restructuring, and moved order fulfilment into queued background workers for a Shopify order backend sustaining 10,000+ orders/month.
- Engineered event-driven Laravel backends (queues, events, secure webhooks) powering WebSocket-based live bid broadcasting, a transactional wallet ledger, and automated revenue-split payouts to artists on MaDigital.
- Designed and documented REST APIs for Stripe/PayPal payments, Twilio OTP/2FA, and KYC onboarding, with multilingual support and CMS-driven approval workflows.
- Integrated Zerodha Kite and Accord Fintech APIs into a live market-analytics product with real-time pricing, portfolio tracking, and trend dashboards.
- Owned client-facing delivery across all five platforms — requirements, architecture, implementation, code review, and post-launch production support; earned Employee of the Quarter (2025) and the Emerging Star Award (2024).

CLIENT PLATFORMS DELIVERED (SAPPHIRE)

- **Stock Saathi** — financesaathi.com — Fintech analytics dashboard: real-time market data, portfolio tracking, trend insights. (Laravel, MySQL)
- **MaDigital** — Music-collaboration SaaS: KYC onboarding, subscription billing, multilingual CMS workflows, revenue-split payouts. (Laravel, MySQL)
- **Auction Platform** — live — Real-time bidding engine with live bid broadcasting, admin controls, Twilio OTP/2FA and Google Places verification. (Laravel, MySQL)
- **Terri Tie** — friendwe.com — Dating and subscription product: user management, matchmaking, real-time messaging, premium tiers. (Laravel, Vue.js, MySQL)
- **Fastest Finger First** — fastestfingerfirst.in — Quiz and rewards app: scoring engine, live leaderboards, wallet with automated reward distribution. (Laravel, MySQL)

PROJECTS

production-rag-eval — Enterprise RAG Chatbot with Evaluation Harness

github.com/jaiminpanchal2002/production-rag-eval

Python, FastAPI, LangChain, ChromaDB, RAGAS / DeepEval, Gemini + Ollama, Docker, GitHub Actions

- Built a production-grade RAG chatbot (FastAPI + Streamlit) with HuggingFace bge-base embeddings, ChromaDB vector search, and Maximal Marginal Relevance retrieval (k=3, fetch_k=10), served by Google Gemini and local Ollama models (phi3, tinyllama) for cost-controlled inference.
- Automated quality evaluation with RAGAS and DeepEval, scoring faithfulness, answer relevancy, and context precision in a GitHub Actions CI pipeline, reaching 92% test coverage, zero hallucinations on the automated evaluation set, and sub-1.2s average response latency.

ResolveAI — Evaluation-Driven LLM Support Agent

github.com/jaiminpanchal2002/resolve-ai-agent

Python, LangGraph, FastAPI, PostgreSQL + pgvector, Redis, Celery

- Built a LangGraph agent resolving support cases via tool calling and hybrid retrieval: pgvector HNSW cosine search fused with Postgres full-text via Reciprocal Rank Fusion, then cross-encoder reranked, benchmarked against a dense-only baseline in a repeatable evaluation harness.
- Enforced deterministic policy guardrails in application code rather than prompts, escalating high-risk cases to humans without LLM discretion.
- Instrumented full audit logging of every LLM and tool call to PostgreSQL with per-request token, cost, and latency metrics, and enforced coverage reporting in CI.

Secure Spring Boot Service (Expense Manager) — DevSecOps CI/CD github.com/jaiminpanchal2002/expense-manager | live

Java, Spring Boot, Spring Security, JPA, PostgreSQL, Docker, GitHub Actions

- Engineered a six-stage DevSecOps pipeline in GitHub Actions: Gitleaks (secret scanning), Trivy and Snyk (dependency and container CVEs), SonarCloud (SAST), OWASP ZAP (DAST), and Cosign-signed images pushed to GHCR, gating every merge before release.
- Built the three-tier Spring Boot application hardened against the OWASP Top 10 (Spring Security authentication, JPA prepared statements, CSRF protection, role-based access control), validated at 85% JUnit test coverage.

DevLaunch — Backstage Internal Developer Platform

github.com/jaiminpanchal2002/DevLaunch-IDP

Backstage, Kubernetes, ArgoCD, Helm, Docker, Prometheus/Grafana

- Built a self-service internal developer platform that scaffolds a production-ready service from golden-path templates and deploys it via ArgoCD GitOps to Kubernetes in a single automated workflow.
- Preconfigured Prometheus/Grafana observability, Helm packaging, and health-check probes in every generated service, so each new service ships with dashboards and alerts from its first deploy.

NexCart — Next.js Commerce Platform

github.com/jaiminpanchal2002/NexCart-e-commerce

Next.js 16, React 19, TypeScript, Stripe, PayPal

- Integrated Stripe and PayPal with server-side payment capture and webhook-driven order reconciliation, plus Google OAuth 2.0 sign-in.
- Built an LLM product-discovery assistant over the product catalog and an admin dashboard with server-side revenue, conversion, and inventory aggregation.

EDUCATION

- **B.Tech in Computer Science & Engineering** — Indus University, Ahmedabad | 2019–2023 | CGPA 8.89/10
- **M.Sc. Software Engineering** — Hochschule Heilbronn, Germany | 2026 | One semester completed

CREDENTIALS

- **IBM Project Manager** — Professional Certificate, Coursera (2026): project lifecycle, risk and stakeholder management, leadership, and Agile/Scrum; CAPM exam preparation. Credential
- **Generative AI Mastermind** — Outskill (2026): applied LLMs, prompt engineering, and AI application building.