

ATIF ALI

Senior Software Architect | AI Agents & LLM Integration

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SUMMARY

Senior Software Architect with 20+ years shipping production systems across fintech, multi-tenant SaaS, and AI platforms. Recent work spans regulated cross-border payments, AI agentic platforms with LangGraph and RAG, and Shopify multi-tenancy with hardened isolation. Comfortable owning a product end to end: architecture decisions through CI/CD to deployed service.

CORE SKILLS

AI & LLM

LangGraph, RAG (pgvector, hybrid search), MCP servers, Claude API, Anthropic SDK, LangChain, Langfuse observability

Backend

Python / FastAPI, Node.js / TypeScript, Golang, Ruby on Rails 8, Laravel 12 / PHP 8.2, REST APIs, microservices

Frontend

React, Next.js 15, Vue, Livewire, TypeScript, Tailwind, shadcn/ui, React Native / Expo

Data & Infra

PostgreSQL 16 (RLS, pgvector), MySQL, Redis, Elasticsearch, BullMQ, RabbitMQ, Prisma, Drizzle ORM

DevOps

Docker, AWS, GitHub Actions, Nginx, Caddy, Cloudflare Pages, Cloudflare Tunnel, Prometheus / Grafana / Loki

Security

HMAC-SHA256 webhooks, Better Auth, OAuth, Sanctum, row-level security, AES-256-GCM at rest, Stripe Cashier

EXPERIENCE

Senior Software Architect — E-Commerce Intelligence SaaS Platform

2010 to Present • Remote consultancy, delivering to UK / US / EU clients

- Backend Team Lead on a multi-microservice e-commerce product intelligence and affiliate marketing platform serving publishers
- Design and own backend architecture for partner and merchant API integrations powering the publisher network
- Ship services across smart search (Laravel + Elasticsearch), scraping proxy with 15+ extraction methods, notification engines (email / SMS / push), AI keyword optimization (Node.js + Claude API), and a URL validation pipeline with 427+ tests
- Built a multi-phase market research automation pipeline using Anthropic Claude API for a product-shopping experience adjacent to the platform (2024)
- Stack:** Laravel 12, Node.js / TypeScript, Python, PostgreSQL, MySQL, Elasticsearch, Redis, RabbitMQ, AWS, Docker, GitHub Actions

Earlier Career (2005 to 2010)

Five years of foundational work on web applications, REST APIs, and CMS-powered products across PHP, MySQL, Apache, Magento, and Ruby on Rails.

SELECTED PROJECTS

Axon — AI Agentic SaaS Platform (active portfolio, phases 1 to 8 complete)

Multi-tenant AI platform built on queue-first architecture. Production LangGraph agents with streaming chat, RAG pipeline over pgvector (upload, chunk, embed, hybrid search), MCP servers (Postgres + custom template bridge), full observability stack (Prometheus, Grafana, Loki, Langfuse), row-level security via Drizzle axon_app + withOrg pattern, billing via Stripe.

Stack: Next.js 15, Fastify 5, Python / FastAPI, LangGraph, PostgreSQL 16 / pgvector, Redis, BullMQ, Drizzle ORM, Better Auth, Oracle Cloud, Cloudflare Tunnel
<https://github.com/atifali-pm/axon>

Zarpay — Cross-Border UK to Pakistan Payments

Single-corridor money transfer product. GBP in from the UK, PKR out via Pakistan bank transfers, mobile wallets (Easypaisa, JazzCash, NayaPay), or cash pickup. Mid-market FX with disclosed spread, AML rules engine, KYC flow, state-machine transaction handling, audit log. Sender mobile app in Expo / React Native, operations panel for agents, provider interfaces (payment-in, payout, KYC, OTP, FX) designed for swap-in of licensed counterparties.

Stack: Next.js 15, TypeScript, Prisma, PostgreSQL, NextAuth.js, Tailwind, shadcn/ui, Stripe sandbox, Frankfurter FX, Expo / React Native
<https://github.com/atifali-pm/zarpay>

StoreBridge — Multi-Tenant Shopify SaaS with Hardened Isolation

Cross-store inventory synchronization for merchants running multiple Shopify stores. Postgres Row-Level Security on every tenant table plus application-layer scoping, proven by a 16-assertion integration suite that attempts cross-tenant SELECT / UPDATE / DELETE / INSERT and verifies each fails. HMAC-verified webhooks use crypto.timingSafeEqual on the raw body before JSON parse, idempotent via a unique shopify_webhook_id index. Access tokens encrypted at rest with AES-256-GCM. Append-only audit log on every mutation.

Stack: TypeScript (strict), Node.js, PostgreSQL with RLS policies, BullMQ, Docker
<https://github.com/atifali-pm/storebridge>

CaseFlow — Multi-Tenant Case Management SaaS

Shipped in 10 tagged phases. Multi-tenancy via global scope on provider_id (no URL prefixes, no tenancy package), Stripe Cashier billing across 3 tiers, Livewire client portal, kanban board, calendar view, time tracking, expenses, PDF invoices via DomPDF, in-app and email notifications, global search, Sanctum REST API, HMAC-SHA256-signed outgoing webhooks, custom activity log trait (about 50 lines, zero dependencies).

Stack: Laravel 12, Filament 3, Livewire 3, Stripe Cashier, Sanctum, PostgreSQL 16, Docker, DomPDF
<https://github.com/atifali-pm/caseflow>

Tracklane — AI-First Rails 8 Project Management

Self-hostable multi-tenant PM platform with Claude in the core workflow. Issue triage, ask-your-project chat over issues / comments / wiki with cited sources, daily team digest, meeting-to-tickets extractor. Hotwire and Action Cable for live collaboration. Currently in Phase 1.

Stack: Rails 8, PostgreSQL 16, Hotwire, Action Cable, Sidekiq, Claude API, Tailwind, Docker
<https://github.com/atifali-pm/tracklane>

n8n Agent Studio — Production-Grade Automation Workflows

Three workflows on a shared Postgres audit table: GitHub activity digest (simple), content distribution drafts (moderate), Gmail inbox ops agent with Claude tool-use (advanced, four bound tools and Linear ticket creation). Single Docker Compose stack, single dashboard across all three.

Stack: n8n, Claude API, PostgreSQL 16, Docker Compose, Gmail API, Linear API, Slack API
<https://github.com/atifali-pm/n8n-agent-studio>

Additional Portfolio

- **LearnLoop:** multi-tenant gamified LMS with TypeScript gamification engine, append-only XP ledger, role-gated admin, HMAC outbound webhooks, Expo companion app. github.com/atifali-pm/learnloop
- **DriveBid:** reverse-auction ride-hailing in Expo / React Native + FastAPI, OpenStreetMap via Leaflet. github.com/atifali-pm/drivebid
- **Reelm:** self-hosted Netflix-style streaming. 20+ features, 15 API routers, 7 Docker services. HLS with FFmpeg, MinIO object store, FastAPI backend. github.com/atifali-pm/reelm
- **Kong Redis Plugin:** open-source Lua plugin for Kong API Gateway implementing Redis-backed proxy cache. github.com/atifali-pm/kong-proxy-cache-redis-plugin

BREADTH

Comfortable across CMS platforms (WordPress, Joomla, Drupal, custom CMS), additional languages (PHP, Python, Node.js, Go), and any mainstream framework the project requires. Odoo CRM and ERP setup, including instance deployment, module configuration across Sales, Purchase, Inventory, Accounting, and HR, and custom module development. Prior experience includes decentralized applications (DeFi yield farming, staking, cross-network bridges) with working knowledge of consensus mechanisms, peer-to-peer security, and distributed ledger design.

EDUCATION

Master of Computer Sciences (MCS), Bahria University, Islamabad • 2002 to 2005