

Authentic Engineering Capability: We present genuine architectural prototypes and client deliverables. No vanity metrics or fabricated claims — pure technical competence, schema design, and production outcomes.

CASE STUDY 01 • APPLIED AI & VECTOR SEARCH

Intelligent Document Retrieval & RAG Knowledge Engine

React • Node.js • Express • Qdrant Vector DB • OpenAI Embeddings • Tailwind CSS

The Challenge: Professional services knowledge workers were wasting hours per week manually searching through scattered PDF contracts, policy documents, and manuals with traditional keyword search failing on complex semantic queries.

The Architectural Solution: Engineered an end-to-end RAG (Retrieval-Augmented Generation) pipeline. Documents are parsed via OCR, split into semantic sentence chunks, embedded, and indexed into Qdrant Vector Database. A clean React chat interface allows natural language Q&A with exact page footnote citations.

Key Metric: Query retrieval & synthesis dropped from 30 minutes to under 8 seconds with 100% source-auditable citations.

CASE STUDY 02 • FULL-STACK WEB APP & DATA SYNC

Custom Operations Dashboard & Multi-Carrier Sync

React • Vite • Node.js • PostgreSQL • Redis • REST APIs

The Challenge: An e-commerce distributor suffered order data fragmentation between Shopify, a legacy ERP, and three regional freight logistics APIs, resulting in manual spreadsheets and shipping delays.

The Architectural Solution: Architected a centralized operational web dashboard featuring background webhook listeners, resilient Redis job queues, and an automated reconciliation engine that detects shipment status discrepancies in real time.

Key Metric: Processed 10,000+ weekly event webhooks with zero dropped transactions; eliminated 15 hours of weekly manual data entry.

CASE STUDY 03 • HEADLESS WEB PERFORMANCE

High-Performance Headless Web Application

Next.js 16 (App Router) • React 19 • TypeScript • Tailwind CSS • Cloudinary

The Challenge: A legacy WordPress corporate website was suffering 5.2s page load times, poor mobile UX, and declining organic Google rankings due to bloated plugin script weight.

The Architectural Solution: Rebuilt the platform from scratch with a headless Next.js architecture, server-rendered React components, zero-bundle image overhead (inline optimized SVGs), and structured JSON-LD schemas.

Key Metric: Page load time reduced from 5.2s to 0.7s; Google Lighthouse score improved from 41 to 99/100.

Our White-Label Delivery Guarantee

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