

Vyoman

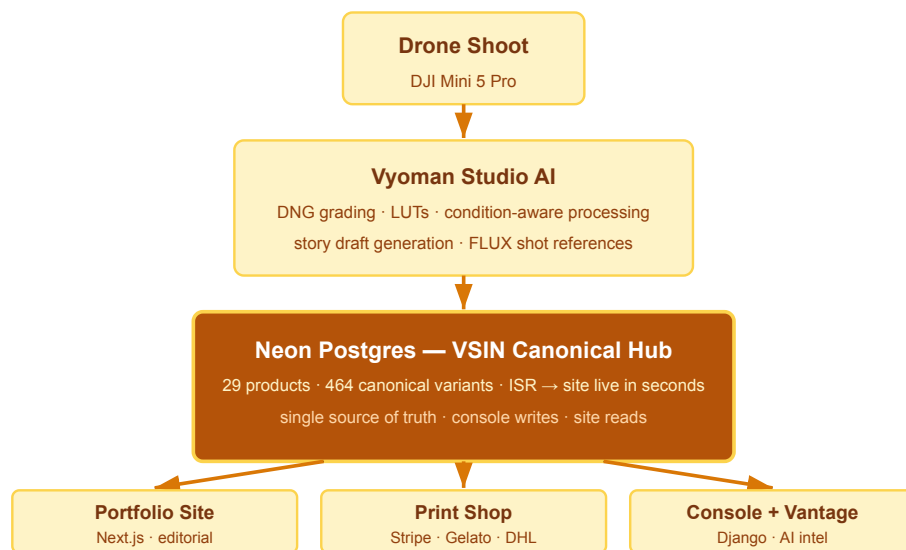
An end-to-end aerial photography business — portfolio, print store, operations console, and AI mission intelligence — designed, built, and operated solo.

vyomanaerials.com · vantage.vyomanaerials.com · shop.vyomanaerials.com

THE PROBLEM

Running a drone photography business end-to-end usually means stitching together a dozen disconnected SaaS tools — content in one place, commerce in another, fulfilment and operations somewhere else. There's no integrated system where a single change propagates everywhere, and AI handles the mechanical 70% of production so the human keeps the creative 30%.

ARCHITECTURE & DATA FLOW



WHAT I BUILT

- › Portfolio site (Next.js 15) with a print store: Stripe checkout, Gelato print-on-demand fulfilment, DHL shipment tracking, and 4-tier digital licensing — entirely automated, no manual intervention on standard orders.
- › A canonical data layer in Neon Postgres linking every portfolio item to its print product and sales record. Update one item in the console → it appears on the public site within seconds via ISR. No code changes, no deploy.
- › Django ops console on Railway: order lifecycle management, automated lifecycle emails, LLM intelligence dashboard, and vision model inference that classifies raw footage against the product registry.
- › Vantage — a 12-phase AI mission intelligence system built in 3 days: streaming LLM briefing generator, airspace WMS compliance checks, weather scoring, shot references via FLUX image generation, and portfolio ROI attribution linking flights to orders.
- › Automated broadcast engine: content created once in the console, published to Instagram and YouTube without manual steps.

WHAT THIS DEMONSTRATES

Full-scope solo product delivery — commerce, operations, AI intelligence, and creative automation integrated into one system with a canonical data layer. End-to-end order pipeline built and operational: Stripe checkout through Gelato fulfilment to DHL delivery, fully integrated. Every architectural decision made and shipped alone.

KEY NUMBERS

29live
products**464**canonical
variants**6**services
deployed**12**AI
mission
phases

TECH STACK

Next.js 15

Django 5.2

Neon Postgres

Stripe

Gelato

Railway

Vercel

Cloudflare R2

Claude

FLUX

Celery

Resend

Sameer Bhalerao

Senior Analytics & AI
Leader · Luxembourg
11+ years · 9 years at
Amazon (L6)
Built and operates this
solo

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