



ORBIS

ALGO TRADING & BACKTESTING PLATFORM

Case Study

A Full-Stack, Data-Driven Trading Platform

Automated strategies, real-time options analytics, and AI-assisted market intelligence — designed, built, and shipped end to end for Indian equity & derivatives markets.

9

modules

500+

stocks/day

3

brokers

Live

in production

Fragmented tooling, unified into one platform

THE PROBLEM

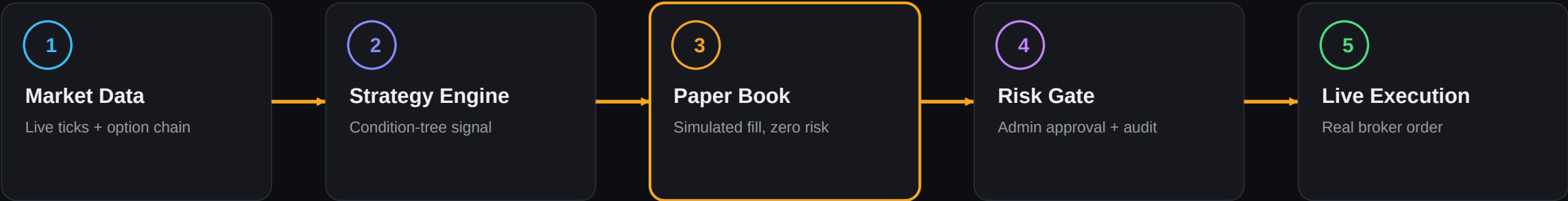
- Backtesting, live analytics, news, and execution live in separate tools — stitched together by hand.
- No forced PAPER-trading validation step before real capital is at risk, and no audit trail.
- Retail traders lack institutional signals — dealer gamma exposure (GEX), zero-gamma flip, max-pain migration.
- Strategies built for one broker rarely port to another — switching means rewriting integration code.

THE APPROACH

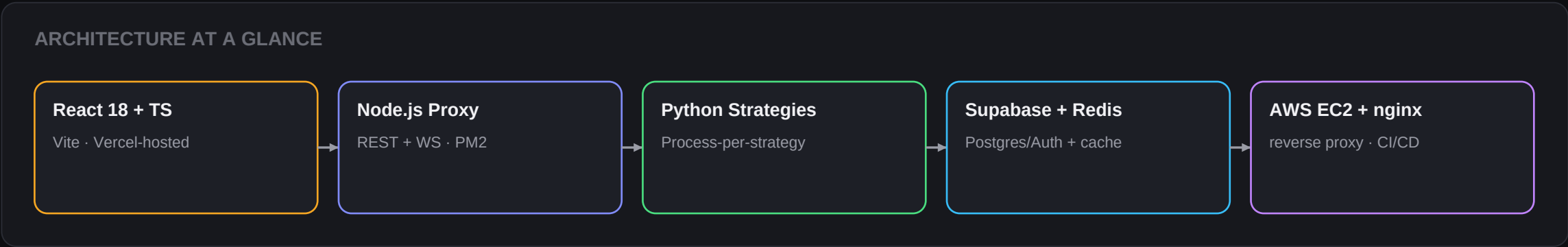
- One platform, 9 modules: Strategy Studio, AlgoHub, Battlefield, Gamma Blast, Straddle Premium, Smart Money, News Desk, OI Tracker, Option Chain — all sharing one data & execution layer.
- PAPER mode is the hard default everywhere — LIVE trading requires explicit admin approval and writes to an append-only audit log. No code path silently goes live.
- Real-time dealer-GEX and zero-gamma-flip computed in-house from raw option chains — no vendor greeks feed needed.
- A broker-agnostic adapter layer (Upstox / Fyers / Dhan) — strategy code never talks to a broker API directly.

HOW IT WORKS

From signal to trade in five stages



PAPER mode is the default for every strategy; LIVE trading requires explicit admin approval and an append-only audit trail.



WHAT WAS BUILT

Production-grade, shipped and running live

Frontend

- React 18 · TypeScript
- Vite · Tailwind + shadcn/ui
- framer-motion · Recharts

Backend

- Node.js gateway
- PM2 process manager
- Redis + SQLite cache

Strategy Engine

- Python 3 · uv
- StrategyBase (ABC)
- LangGraph AI agent

Data & Infra

- Supabase (Postgres+RLS)
- AWS EC2 + nginx
- Vercel + GitHub Actions

9

modules shipped

500+

stocks scanned daily

3

broker integrations

0

unaudited live orders

Let's build your platform.

Available for freelance / contract engagements on Upwork.