

****GannAstro Full Development Cost Estimate****

****Target Budget: 75,000 USDT****

This estimate covers end-to-end design, development, integration, testing, and initial deployment of the complete GannAstro platform as described in the project brief (V1–V3 scanners, Gann engine + Circle of 8, VSOP87 planetary engine, 100k+ token catalog, multi-exchange integrations, Signal Journal, Telegram alerts, settings system, and all listed APIs).

1. Assumptions

- All work performed by a specialized team (full-stack TypeScript, quant/math, and crypto data specialists).
- Rates in USDT (stable equivalent to USD).
- Includes architecture, implementation, unit/integration testing, basic documentation, and one round of refinements.
- Excludes ongoing hosting, API usage fees (CMC, Telegram, etc.), legal/compliance, marketing, or post-launch maintenance.
- Timeline: ~1–2 weeks.
- Pure TypeScript server-side computation for ephemeris and Gann logic (no external ephemeris APIs).

2. Team Composition & Blended Rates

Role	Rate (USDT/hr)	Approx. Hours	Cost (USDT)
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Lead Full-Stack / Architect	140	180	25,200
Backend / Data Engineer	120	160	19,200
Frontend / UI Engineer	110	120	13,200
Quant / Astro Math Specialist	160	70	11,200
QA / Integration Tester	90	50	4,500
Project Coordination	100	17	1,700
Total		**597**	**75,000**

3. Detailed Breakdown by Module / Phase

****Phase 1 – Foundation & Architecture (12,800 USDT)****

- Monorepo setup (Vite SSR + Express unified build)
- Project structure (`src/server`, `src/lib`, `src/pages`, `/private` stores)
- MySQL + Drizzle ORM schema design
- Core configuration & settings system (`/private/gannastro-settings.json`)
- SSR rendering pipeline + basic routing

****Phase 2 – Core Engines (22,400 USDT)****

- Gann Price Engine (`gann-engine.ts` + v2)
 - $\log_{10}$ price $\rightarrow$ 360° mapping

- Level ladder (decade -3 to +3)
- Breach detection with configurable orb
- Circle of 8 engine (8 multiplicative factors, sector detection, runway calculation)
- Planetary Ephemeris Engine (pure TypeScript)
 - VSOP87 + Keplerian / Meeus AA2 algorithms
 - 10 bodies (Sun, Moon + 8 planets)
 - Geocentric tropical longitudes
 - Aspect detection (0°/90°/120°/180°) with applying/separating logic
- Mint-angle calculation (average of 8 planet longitudes at token creation)

****Phase 3 – V3 Universal Token Database (11,500 USDT)****

- Persistent MySQL catalog (`TOKEN\_LISTINGS`, `CATALOG\_RUNS`)
- Ingestion pipelines for:
 - CoinMarketCap (top 500+)
 - Binance + 9 additional CEX public feeds
 - DexScreener (multi-chain)
 - Uniswap / PancakeSwap / PumpSwap
- Listing-level deduplication (source + exchange + pair + chain)
- Gann-degree indexing + market metrics
- Target scale support for 100k+ listings

****Phase 4 – Breach & Signal Systems (12,800 USDT)****

- DEX L0 / DEX L-1 Gann breach scanners
- CEX L0 scanner + long-running endpoint (`/api/cex-breach/long`) with polling
- 4-hour deduplication window
- Momentum Scanner, Coiling Detector, Delta-to-Zero, Pump Alerts
- Squeeze Leaderboard + 100x Radar
- Moon Engine (lunar phase overlay)

****Phase 5 – Signal Journal, Alerts & APIs (8,200 USDT)****

- Persistent Evidence + Outcome stores (JSON under `/private`)
- Checkpoint tracking (15m / 1h / 4h / 24h / 7d)
- LSF calibration foundation
- Full API surface (planetary/v2, aspects, token/:symbol, gann-alerts, cex-breach, catalog, momentum, squeeze, journal, etc.)
- Telegram Bot integration (alerts + delivery)

****Phase 6 – Frontend Dashboard, Integrations & Polish (7,300 USDT)****

- React 19 + TypeScript dashboard (all major views)
- Token deep-analysis page, Journal UI, Settings tabs, Leaderboards
- Exchange data connectors finalization
- Recharts visualizations, responsive UI (Tailwind + shadcn/ui + Motion)
- End-to-end testing, performance tuning (setInterval scanners, long-scan handling), basic documentation

4. Summary

Category	Cost (USDT)
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Core Engines (Gann + Planetary)	22,400
Token Database + Ingestion	11,500
Breach / Momentum Systems	12,800
APIs + Journal + Telegram	8,200
Frontend + Architecture + QA	20,100
Grand Total	**75,000**

5. Notes & Recommendations

- This is a fixed-scope estimate aligned to the provided brief. Significant scope additions (e.g., live trading execution, advanced ML calibration beyond LSF foundation, multi-language support, or mobile apps) would require a change order.
- Highest-risk / highest-value items are the pure-TypeScript VSOP87 ephemeris accuracy and the scalable 100k+ catalog ingestion pipeline.
- Payment recommendation: 100% upfront

Optional post-launch retainer (not included): 4,000–6,000 USDT/month for monitoring, new exchange additions, and signal calibration improvements.