

## Alex Bel

**CTO | Quant Engineer | Arbitrage Bot Developer | Python & DeFi/CEX Trading Systems**

Location: Remote

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## Summary

**Senior Quant Engineer with a proven track record in building and deploying high-performance arbitrage and trading automation systems since 2020. Currently serving as CTO of a decentralized trading fund, leading R&D and production implementation of automated trading infrastructure for delta-neutral and basis strategies. Deep hands-on expertise in delta-neutral, funding rate, and basis arbitrage across both CEX and DEX environments. Strong in low-latency execution, robust error handling, and risk-managed infrastructure. Experienced in smart contract development (Solidity), system design, and advanced Python (async, WebSocket, REST API). Recognized for delivering reliable, scalable, and production-grade solutions for leading DeFi and crypto trading platforms. Proven technical leader with a focus on scalable, secure, and high-performance trading automation.**

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## Key Skills

- **CTO/Technical Strategy**
- **Fund Operations (crypto)**
- **Leadership & Team Building**
- **Cross-exchange/arbitrage infrastructure**
- **Security & Compliance (crypto fund)**
- **Automated Risk Controls**
- **Programming: Python 3.12+ (asyncio, WebSocket, REST API), Solidity (arbitrage logic, DeFi protocols, EVM integration)**
- **Smart Contracts: Arbitrage routing, slippage/TVL protection, token standards (ERC-20, custom), production deployment & testing**

- **Arbitrage Strategies:** Delta-neutral (CEX), basis/funding rate (CEX/DEX), atomic & triangular routing, slippage control
  - **Execution & Trading Systems:** Fail-safe order placement, dual-leg hedging, PnL calculation, stop-loss/take-profit automation, simulation frameworks
  - **Data & Infra:** Real-time analytics, log aggregation, Docker, FastAPI, PostgreSQL, config management (Pydantic), CI/CD
  - **DeFi Analytics:** Liquidity pool modeling, price impact estimation, gas/fee optimization, TVL & on-chain data monitoring
  - **Ops & Monitoring:** Trade logging, Telegram integration, system healthchecks, alerting
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## Highlighted Projects

### Decentralized Trading Fund — CTO

#### *Stealth-stage automated trading fund*

- Led the development of a full-cycle delta-neutral and funding rate arbitrage platform on Hyperliquid, GMX, and other DEX/CEX venues.
- Designed fund-level risk controls, strategy backtesting, and investor reporting workflows.

### Drift ↔ Hyperliquid Arbitrage Bot

#### GitHub: [Drift-Hyperliquid Arbitrage Bot](#)

- Architected and delivered a modular arbitrage system for simultaneous delta-neutral, basis, and funding rate strategies between Drift (Solana) and Hyperliquid L2.
- Designed asynchronous connectors for unified order book, funding, and execution data ingestion.
- Built atomic execution engine with rollback logic for dual-sided order management and risk isolation.
- Implemented strict slippage, timeout, and position tracking controls for production safety.
- Developed CLI/strategy orchestration, config via Pydantic, and multi-layered logging/audit for real-time and historical trade analysis.

### Okbitok Arbitrage Bot — CEX

#### GitHub: [Okbitok Arbitrage Bot](#)

- Developed a delta-neutral CEX arbitrage platform supporting Bybit, KuCoin, and additional venues.
- Automated cross-exchange price/funding monitoring, order placement, PnL/position calculation, and stop-loss/take-profit logic.
- Engineered resilient, restart-safe execution with event-driven notifications (Telegram, file logging).
- Achieved high throughput and stability with async pipelines and robust exception handling.

#### **Okbitok Arbitrage Bot — DEX**

GitHub: [Okbitok DEX Arbitrage Bot](#)

- Designed and audited production-grade Solidity smart contract for atomic triangular arbitrage on Uniswap V3/Camelot.
- Integrated on-chain simulation for route selection, gas/fee optimization, and slippage prediction.
- Coordinated backend in Python for transaction orchestration, state monitoring, and profit/risk analytics.
- Validated with comprehensive testing and real trades in live DeFi environments.

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### **Professional Experience**

#### **Chief Technology Officer (CTO) | Decentralized Trading Fund**

2025 — Present, Remote

- Technical leadership of a stealth-stage fund focused on delta-neutral, basis, and funding rate strategies on perpetual DEXes (Hyperliquid, GMX, and others).
- Designed and implemented production-grade, automated trading infrastructure (Python, Solidity, EVM) with a focus on risk management, scaling, and operational transparency.
- Responsible for technical team recruitment, codebase quality, security controls, and strategic roadmap.
- Integrated advanced execution logic (cross-exchange, on-chain, fallback safety) and full-stack analytics for fund performance and risk monitoring.

**Freelance Quant Developer | Self-employed**  
**2020 — Present**

- **Independently delivered end-to-end automated trading systems for arbitrage and liquidity provision in the crypto ecosystem.**
- **Built, tested, and optimized high-frequency bots with live deployment and 24/7 operation.**
- **Developed custom smart contracts for arbitrage and liquidity strategies, including audits and testnets/mainnets launch.**
- **Integrated diverse APIs (REST, WebSocket, on-chain) and ensured reliability under real market load.**
- **Specialized in robust system architecture, error/edge-case handling, execution safety, and transparent analytics.**
- **Maintained full responsibility for architecture, implementation, monitoring, and post-deployment support.**
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**Education**

**Ongoing professional development through hands-on research, production system design, and active participation in DeFi/CEX trading and development communities.**

**Relevant open-source contributions and continuous learning through advanced trading, smart contract audits, and crypto R&D.**