

Dimitar Prodromov

LEAD QUANTITATIVE SYSTEMS ARCHITECT

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Sofia, BG // REMOTE

Expert Systems Engineer bridging the gap between **Cybersecurity** and **High-Frequency Trading**. Architect of autonomous, resilient systems capable of processing market data at the speed of thought. I do not just write code; I design **digital organisms** that live, adapt, and hunt on the blockchain.

01 // SIGNATURE TECHNOLOGY

QAntum Vortex

Proprietary HFT Core

A sophisticated multi-threaded algorithmic trading ecosystem engineered from the ground up in Node.js and TypeScript. Designed to eliminate the "Event Loop" bottleneck by distributing logic across a swarm of autonomous worker threads.

ARCHITECTURE

THROUGHPUT

STRATEGY

UPTIME

Multi-Threaded

Sub-ms Latency

Neural/Statistical

99.99% Resilient

- **ThreadMaster Protocol:** Custom concurrency controller that orchestrates 16+ parallel execution threads, preventing main-process blocking.
- **Tactical Dashboard:** CLI-based visualization engine rendering real-time market telemetry and PnL without GUI overhead.
- **Smart Order Routing:** Enterprise-grade execution adapter with built-in sanitization and fault tolerance for Binance/Bybit.

02 // PROFESSIONAL EXPERIENCE

Senior Systems Architect (Stealth) QANTUM EMPIRE

2023 — Present

- Spearheaded the development of "**The Hive**", a decentralized botnet for market analysis and arbitrage.
- Implemented military-grade operational security (OpSec) protocols for key management and transaction signing.
- Applied Red Team methodologies to harden trading capital against smart contract exploits and flash loan attacks.

Senior QA Automation Lead DRAFTKINGS INC.

2021 — 2023

- Managed automation infrastructure for a high-volume transactional platform handling millions of daily bets.
- Engineered chaos engineering tests to validate system stability under peak load (Super Bowl scale events).

CORE TECHNOLOGIES

TypeScript / Node.js (V8)

C++ / Python (NumPy)

WebSockets / FIX Protocol

Docker / Kubernetes

FINANCIAL ENGINEERING

Market Making Logic

Statistical Arbitrage

RSI / MACD / Bollinger

Risk Management Systems

SECURITY

Penetration Testing

Secure Encalve (SGX)

Memory Safety

API Hardening