

DIMITAR PRODROMOV

BLOCKCHAIN ENGINEER & HFT SYSTEMS ARCHITECT

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[LOC]

Sofia,
BG

01 ENGINEERING MASTERPIECE

THE QANTUM VORTEX: HIVE MIND Personal R&D Project

Architected a sovereign, Multi-Threaded High-Frequency Trading (HFT) ecosystem designed to execute arbitrage and algorithmic strategies across Binance/Bybit with sub-millisecond latency.

- **Concurrency Architecture:** Engineered a custom `ThreadMaster` controller using **Node.js Worker Threads** to bypass the single-threaded Event Loop bottleneck, utilizing 100% of available CPU cores (Ryzen 7) for parallel market analysis.
- **Autonomous Drone Swarm:** Deployed independent "Drone" processes for BTC, ETH, SOL, XRP that utilize inter-process communication (IPC) to request capital from a central "Portfolio Guard" vault, ensuring race-condition-free fund management.
- **Resilient Network Layer:** Built a custom wrapper around Binance WebSockets that implements "Smart Retry" logic and connection pooling, ensuring 99.99% uptime even during API outages.
- **Tactical Dashboard:** Developed a real-time, low-latency CLI dashboard rendering live PnL, Trades, and Signals using direct stdout cursor manipulation (no library overhead).

TypeScript

Node.js Workers

System Design

Binance API

Algorithmic Trading

RSI/MACD Simulation

02 PROFESSIONAL HISTORY

Senior Security & Systems Engineer

QANTUM EMPIRE (Stealth)

2023 - PRESENT // REMOTE

- Leading the architecture of "Vortex": A hybrid Offensive Security and Algorithmic Trading OS.
- Merging **Cybersecurity Red Teaming** principles with **Finance** to create hardened trading bots immune to MEV (Miner Extractable Value) attacks and sandwich attacks.
- Managing a diverse stack of microservices communicating via secure encrypted channels (AES-256).

Senior QA Automation Engineer

DRAFTKINGS INC.

2021 - 2023 // SOFIA

- Designed massive-scale automation frameworks dealing with thousands of real-time transactions per second.
- Engineered custom test harnesses in C# and JS to validate high-load betting engines (similar to HFT matching engines).
- Optimized CI/CD pipelines to reduce deployment latency by 60%.

03 TECHNICAL ARSENAL

CORE ENGINEERING

- **Languages:** TypeScript (Advanced), JavaScript (ESNext), Node.js (Internals), Python, C++
- **Systems:** AWS, Docker, Kubernetes, Linux (Kernel tuning)

BLOCKCHAIN & CRYPTO

- **Trading:** HFT logic, Market Making, Arbitrage, Technical Analysis (RSI, Bollinger)
- **Security:** Smart Contract Auditing basics, Wallet Security, API Key Hygiene

→ **Architecture:** Microservices, Event-Driven Architecture, Worker Threads

→ **APIs:** CCXT, Binance, Ethereum RPC, WebSockets