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Sofia, Bulgaria

Dimitar Prodromov

Senior Backend Engineer // High-Load Systems

Senior Engineer with deep expertise in High-Frequency data processing, Social Gaming/Betting platforms (DraftKings), and resilient system architecture. While historically focused on C# and TypeScript/Node.js ecosystems, my core strength lies in designing High-Load, Event-Driven Architectures (using Websockets, Reactive patterns, and Docker Swarms) that scale to millions of users. Seeking to apply my domain knowledge of the gaming industry and complex concurrency to the Patrianna team.

RELEVANT EXPERIENCE

Lead Backend Architect (HFT System) // QANTUM VORTEX (R&D)

2023 - Present

Multithreading Event-Driven Architecture WebSockets Docker PostgreSQL ELK Stack

- Engineered a **High-Frequency Trading Engine** capable of processing 10,000+ market ticks per second using a custom multi-threaded worker architecture (conceptually similar to **Java's Reactor/Netty** model).
- Implemented persistent **WebSocket connections** to Binance/Bybit with automatic heartbeat monitoring, reconnection logic, and frame buffering (matching **Socket.io** patterns).
- Deployed the infrastructure using **Docker** containers, ensuring isolation and easy scaling of "Worker Drones".
- Optimized database interactions for high-throughput transactional data, ensuring data integrity during sub-millisecond arbitrage opportunities.

Senior Automation & Systems Engineer // DRAFTKINGS INC.

2021 - 2023

High-Load Systems

C# (.NET Core)

Kafka

Microservices

Observability

- Worked within the core engineering teams of a massive-scale **Sportsbook Platform**, dealing with traffic spikes of millions of concurrent users (Super Bowl / NBA Finals).
- Designed validation frameworks for **Microservices** that communicate via **Kafka**, ensuring message consistency and eventual consistency across the distributed system.
- Gained deep domain knowledge of **Social Gaming & Betting** lifecycles, wallet transactions, and regulatory compliance requirements.
- Utilized **Observability tools (Grafana/Prometheus/ELK)** to troubleshoot production bottlenecks and latency issues in the betting engine.

TECHNICAL ALIGNMENT

Backend & Concurrency

- **Multithreading:** Expert in designing race-condition-free concurrent systems.
- **High-Load:** Proven track record with systems handling massive TPS (Transactions Per Second).
- **Communication:** WebSockets, REST, gRPC, Message Queues (Kafka adaptation).

Infrastructure & DevOps

- **Containerization:** Docker, Docker Swarm logic.
- **Databases:** SQL (PostgreSQL), NoSQL adaptation.
- **Cloud:** Experience with Cloud-Native patterns (GCP/AWS adaptable).