

# Victoria Michalska

Software Engineer | Trading Systems & Distributed Systems

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## PROFILE

Backend engineer with nearly four years building distributed, event-driven trading systems in Java and Scala. Experienced in Aeron, Kafka, and gRPC, with a focus on financial correctness and production reliability.

## EXPERIENCE

### Trumid Financial LLC

New York, NY

Scala Developer

Feb 2025 – Present

- Built out a **gRPC order-validation service** from an existing scaffold, integrating Kafka-backed state, protocol rules, routing, observability, and E2E tests; deployed to non-production environments.
- Designed and built an **FST validation gateway** for trading-order checks, risk limits, and compliance requirements, with dedicated API contracts and integration tests.
- Migrated session responses to dedicated Kafka topics using dual-write/dual-consume, feature-flagged cutover, and restart-free rollback; verified production rollout.
- Replaced polling-based trading alerts with **event-driven processing**, adding recommendation data, order-state tracking, restart recovery, and staged production enablement.
- Diagnosed a cancel-all code path consuming **84% of service CPU** in profiling; eliminated deep hashing and unnecessary allocations, scoped event fan-out, and added regression tests.
- Delivered cross-service correctness improvements across directional limits, pricing conventions, FIX reports, basket-fill deduplication, and confidential trade notifications.

### Adaptive Financial Consulting

New York, NY

Java Developer

Feb 2023 – Feb 2025

- Co-designed and implemented a **Java actor-based processing architecture** for a Federal Reserve trading and auction platform, forming the foundation of the system beyond its initial MVP.
- Engineered **resilient caching across distributed Aeron gateways** serving data from an Aeron cluster housing matching algorithms; developed custom indexes for efficient, consistent access.
- Built Java/Spring services and Kafka integrations with legacy systems, emphasizing deterministic execution, rigorous error handling, and data consistency.
- Developed **Cucumber end-to-end tests** for distributed gateway workflows, cross-service interactions, and failure scenarios.

## TECHNICAL SKILLS

**Languages** Scala, Java, Python

**Messaging & protocols** Kafka, gRPC, Protocol Buffers, FIX, Aeron

**Infrastructure & tools** Kubernetes, Helm, Grafana, LaunchDarkly, Bazel, Spring Data JPA, Cucumber

## EDUCATION

Williams College

2022

Computer Science and Art History & Practice

Williamstown, MA