

Kaden Mosley

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SUMMARY

Site Reliability Engineer with eight years supporting latency sensitive financial platforms, distributed services, and stateful cloud infrastructure. Builds reliable production systems across Go, Rust, Python, Kubernetes, AWS, Linux, networking, Prometheus, Grafana, and Datadog. Owns **market data** ingestion, **execution services**, reconciliation, PnL accounting, deployment safety, and **incident response** across continuously operating environments. Traces p99 regressions through application runtimes, kernels, network paths, NICs, and downstream venues. Creates SLOs, high signal alerts, GitOps automation, progressive delivery controls, feed failover, replay workflows, and integrity checks across live gauges, Postgres, **S3 parquet**, and analytical datasets. Clear operational communication supports sound decisions during market pressure and service degradation.

EXPERIENCE

Senior Site Reliability Engineer, Trading Infrastructure July 2023 - Present
Meridian Market Infrastructure *Denver, CO*

Owns reliability for low latency execution and market data services across equity and crypto venues. Leads production decisions, recovery planning, observability, and deployment safety across multi region EKS. Partners with developers and operators during incidents involving feeds, order states, exchange limits, and service saturation.

- Traced **p99 regressions** with **Prometheus**, Go telemetry, Linux metrics, NIC counters, and packet captures.
- Maintained **multi region** EKS with **Flux**, SOPS, disruption controls, and tested recovery procedures.
- Gated **progressive rollouts** using feed freshness, **order acknowledgments**, service health, and reconciliation signals.
- Hardened REST and WebSocket feeds with heartbeats, sequence validation, replay, and failover.
- Led incident response for feed degradation, exchange throttling, order state divergence, and saturation.

Site Reliability Engineer, Execution Platforms March 2020 - June 2023
Harbor Peak Trading Technologies *Chicago, IL*

Supported Go and Rust order routing, execution, risk, and PnL services in latency sensitive production. Built observability and reconciliation workflows spanning Kubernetes, Postgres, parquet archives, and analytical datasets. Worked with developers on instrumentation, recovery logic, and deployment safeguards.

- Built **PromQL** alerts and **Grafana** dashboards for tail latency, queue depth, message age, and drift.
- Developed **Python** and pandas checks across live gauges, **Postgres**, parquet archives, and analytical datasets.
- Investigated kernel, TCP, DNS, **garbage collection**, and connection pool behavior during latency events.
- Automated **Kubernetes** deployment checks and configuration validation for execution services.
- Modified application instrumentation and recovery logic with developers, improving operational resilience.

Production Engineer, Market Systems June 2018 - February 2020
Cedar Point Securities Systems *New York, NY*

Operated market data normalization, order event, trade capture, and reconciliation services. Supported **AWS**, Postgres, S3 archives, and monitoring integrations for production teams. Improved diagnostics, structured logging, network tuning, and recovery documentation for persistent venue connections.

- Wrote **Go** and Python utilities for log correlation, feed gap detection, diagnostics, and **replay** verification.
- Standardized **structured logs** around venue, symbol, connection, order identifier, and event sequence.
- Tuned **Linux networking** and service limits for persistent market data connections.
- Maintained AWS, Postgres, S3 archives, and monitoring integrations for production teams.
- Documented recovery procedures for disconnected feeds, delayed messages, database lag, and position mismatches.

Infrastructure Engineer, Financial Systems June 2016 - May 2018
Blue Ridge Financial Software *Charlotte, NC*

Supported AWS hosted Linux services processing time sensitive financial messages. Built operational checks, deployment automation, and recovery procedures for infrastructure teams. Investigated system faults across memory, storage, networking, databases, and object storage.

- Built checks for availability, queue growth, database health, and network connectivity.
- Automated environment configuration and deployments with Python and infrastructure tooling.
- Isolated memory pressure, disk contention, and network faults through logs and system metrics.
- Maintained PostgreSQL backup, restore, integrity, and object storage archive procedures.
- Improved incident reviews, escalation paths, and recovery runbooks across the support rotation.

PROJECTS

Multi Region Trading Reliability Program 📅 2026

Established shared reliability controls for execution services, market data feeds, deployment gates, recovery tests, and operational signals across regions.

Market Data Reconciliation Pipeline 📅 2024

Connected live gauges, Postgres records, S3 parquet archives, and analytical checks so positions, fills, and PnL remained aligned.

LEADERSHIP & AWARDS

- AWS Certified Solutions Architect Professional, earned 2025, reflecting advanced cloud architecture practice.
- Certified Kubernetes Administrator, earned 2024, recognizing hands on cluster operations and production troubleshooting.
- Led incident response improvements across multiple trading teams, strengthening recovery communication and operational confidence.

EDUCATION

Bachelor of Science in Computer Science

2016

University of North Carolina at Charlotte GPA: 3.7

Charlotte, NC

Coursework: Operating systems, computer networks, distributed systems, database systems

CERTIFICATIONS

- AWS Certified Solutions Architect Professional 📅 2025
- Certified Kubernetes Administrator 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Go, Rust, Python
- **Cloud Platforms:** AWS, Amazon EKS, Amazon S3
- **Container Platforms:** Kubernetes, EKS, Flux
- **Secrets Management:** SOPS, encrypted secrets, key rotation
- **Observability:** Prometheus, Grafana, Datadog
- **Metrics and Alerting:** PromQL, SLOs, high signal alerts
- **Databases:** Postgres, PostgreSQL, CockroachDB
- **Data Formats:** Parquet, pandas, BigQuery
- **Market Connectivity:** REST, WebSocket, Databento
- **Operating Systems:** Linux, kernels, system limits
- **Networking:** TCP, DNS, NICs
- **Delivery Methods:** GitOps, progressive rollouts, configuration reloads

SKILLS

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|--------------|--------------|-----------|---------------------|
| • Go | • AWS EKS | • PromQL | • Networking |
| • Rust | • Flux | • Grafana | • Market data |
| • Python | • SOPS | • Datadog | • Incident response |
| • Kubernetes | • Prometheus | • Linux | |

PROFESSIONAL AFFILIATIONS

- Cloud Native Computing Foundation community participant, focused on Kubernetes operations and production reliability.
- SRE and production engineering practitioner, engaged with operational learning across financial technology teams.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST