Alex Rivera

Staff Distributed Systems & Platform Engineer

alex@example.com · San Francisco, CA · Hybrid or on-site, United States and Canada · dev.starcal.tech

8+ years designing and scaling production backends, real-time sync engines, and distributed messaging platforms. Focused on resilient infrastructure, observable systems, and mentoring engineering teams.

EXPERIENCE

Apex Commerce · Lead Platform Engineer — 2023–2024

- Cut multi-warehouse inventory sync latency by 82% at 12,000 transactions per second
- Unified 14 backend microservices behind one federated GraphQL gateway

CloudScale Systems · Senior Backend Engineer — 2021–2023

- Eliminated stale cache reads across three global regions
- Migrated 450 million records (2.8 TB) with zero downtime

Telemetry Labs · Software Engineer — 2019–2021

- Built high-concurrency metric ingestion and aggregation in Rust
- Shipped CRDT-based brokers for real-time shared state

SELECTED WORK

Real-Time Inventory Sync Engine — Apex Commerce, 2023–2024. Sync latency dropped by 82%, overselling during sales events fell to near zero, and any stock level can now be rebuilt by replaying the event log. (Node.js, Apache Kafka, PostgreSQL)

Multi-Region Distributed Cache Invalidator — CloudScale Systems, 2022–2023. Stale cross-region reads were eliminated in normal operation, and during a regional outage the system degraded to slower, still-correct reads instead of wrong ones. (Go, Redis, gRPC)

Zero-Downtime Sharded DB Migration Pipeline — CloudScale Systems, 2021–2022. All 450 million records moved with zero downtime, and the write headroom bought the team years of growth. (Python, PostgreSQL, AWS SQS)

SKILLS

Languages	TypeScript, Go, Rust, Python, Node.js
Data	PostgreSQL, Apache Kafka, Redis
Infrastructure	AWS, Kubernetes, Docker
Web	React

Case studies, pseudocode walkthroughs and references to the work: dev.starcal.tech