

Mohiadeen Ameer

Principal Software Engineer — Backend & Kafka Platform Engineering

Round Rock, TX · 626-342-9487 · mohiadeen.ameer@gmail.com · [linkedin.com/in/mohiadeen-ameer](https://www.linkedin.com/in/mohiadeen-ameer) · github.com/mohiadeen-ameer · medium.com/@mohiadeen-ameer

Principal engineer with 14 years of experience designing distributed backend systems in Go and Java, specializing in Apache Kafka and event-driven platforms on Kubernetes. Sets the technical direction for the job orchestration platform behind Dell OpenManage Enterprise (10,000 concurrent jobs in production), defined the Kafka-based Change Data Capture architecture now used as the reference design across product teams, and authored Dell's whitepaper on Kafka streaming. Confluent Kafka and CKAD certified.

EXPERIENCE

Dell Technologies

Principal Software Engineer

Round Rock, TX

Apr 2025 – Present

- Lead architect of the Job Engine Orchestrator for Dell OpenManage Enterprise: event-driven Go microservices on Kubernetes (k3s), coordinated through Kafka with Valkey and PostgreSQL, running 10,000 concurrent jobs across ~100,000 managed servers in production.
- Defined the Change Data Capture architecture (PostgreSQL logical replication, Debezium on Strimzi Kafka Connect) that separates transactional and reporting workloads, cutting critical report generation from over 5 minutes to under 10 seconds (96%); adopted as the reference design for data migration across product teams.
- Authored Dell's published whitepaper on streaming OpenManage Enterprise alerts and telemetry through Kafka into Grafana, with an open-source reference implementation; built Go Kafka consumers that keep a real-time OpenSearch index of ~100,000 devices in sync without dual writes.
- Set the technical direction for the Job Engine Orchestrator within the 50-engineer OpenManage Enterprise organization; mentor three engineers on distributed-systems design.

TP-Link Systems Inc.

Staff Software Engineer

Irvine, CA

Oct 2024 – Apr 2025

- Designed the data-residency routing layer for the Tapo smart home platform, directing device data to AWS, Azure (Brazil) or Oracle Cloud (Vietnam) to meet regional privacy law through Istio service-mesh policies; reduced regional latency by ~40%.
- Led the move of service-to-service calls from REST to gRPC (30–50% lower latency) and sharded PostgreSQL with Apache ShardingSphere for horizontal scale.

Tata Consultancy Services — Kaiser Permanente

Cloud Architect

Pasadena, CA

Jan 2016 – Oct 2024

- Designed and built SupportPlus, an event-driven self-healing platform (Azure Event Grid, Azure Functions) that monitors 200+ critical healthcare applications and remediates failures automatically; saves ~\$900K a year in support effort and was mandated as the resilience standard across portfolios.
- Led the migration of legacy healthcare monoliths to containerized services on AWS EKS, Azure AKS and OpenShift, owning provisioning, rollout automation and rollback.
- Built the shared CI/CD and Prometheus/Grafana observability platform used by 15+ product teams.

Tata Consultancy Services — Kaiser Permanente, USAA, Target

Senior Software Engineer

Chennai, India

Nov 2011 – Jan 2016

- Delivered CI/CD and releases for the migration of 50+ Java web applications; on-call lead for 30+ production applications.

SKILLS

Languages: Go, Java, Spring Boot, gRPC

Kafka & streaming: Apache Kafka, Kafka Connect, Strimzi, Debezium (Change Data Capture), event-driven architecture, CQRS

Data: PostgreSQL, PgBouncer, ShardingSphere, Valkey / Redis, OpenSearch

Platform: Kubernetes, k3s, OpenShift, Helm, Docker, Istio, OpenBao, Terraform, GitHub Actions

Cloud & observability: AWS (EKS, ECS, DynamoDB), Azure (AKS), Prometheus, Grafana, Loki, Tempo, VictoriaMetrics

EDUCATION & CERTIFICATIONS

Bachelor's, Electronics & Communication Engineering — Sri Krishna College of Engineering, Anna University

2007 – 2011

Confluent Apache Kafka, 2023 · Certified Kubernetes Application Developer (CKAD), 2023 · Azure DevOps Engineer Expert, 2022