

Kalsoom Asif

Senior Software Engineer · Distributed Systems & Platform Engineering

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SUMMARY

Senior engineer specializing in distributed systems, event streaming, and developer platforms. Owns critical-path infrastructure — multi-region ingestion at 12M+ events/day with 99.99% availability, self-service platforms used by 40+ teams — and the SLO, on-call, and ownership practices that keep it reliable. Pairs a B.S. in Computer Science with an MBA and DBA for strong product and business judgment.

EXPERIENCE

Senior Software Engineer — AetherScale Systems

Mar 2024 – Present · Remote

- Lead design and development of a multi-region event ingestion and processing platform handling 12M+ events per day with 99.99% availability.
- Reduced p99 end-to-end latency by 47% through architectural redesign of the streaming pipeline, introduction of tiered caching, and query path optimizations.
- Drove adoption of a service ownership model across three teams; established SLOs, error budgets, and on-call practices that cut mean time to recovery by 35%.
- Mentored four engineers on system design, production readiness, and incident response; contributed to hiring and leveling discussions.

Technologies: Go, TypeScript, Kubernetes, Kafka, PostgreSQL, Redis, AWS (EKS, MSK, S3), Terraform, OpenTelemetry

Senior Software Engineer — HelixPath Technologies

Jul 2022 – Feb 2024 · Remote

- Owned core platform services powering real-time data pipelines used by 40+ internal teams and external partners.
- Designed and shipped a self-service developer platform that reduced average time-to-production for new services from 3 weeks to under 4 days.
- Led migration of legacy monolithic batch jobs to a cloud-native, event-driven architecture, improving throughput by 3.2x and lowering infrastructure cost by 28%.
- Collaborated with product and data science teams to define contracts and SLAs for high-priority data products.

Technologies: Go, Python, Kubernetes, gRPC, Apache Pulsar, Cassandra, AWS, Prometheus, Grafana

Software Engineer — NexaForge Technologies

Jun 2021 – Jun 2022 · Remote

- Developed and maintained microservices and REST/gRPC APIs supporting customer-facing product features at scale.
- Implemented automated testing, CI/CD pipelines, and observability instrumentation that improved deployment frequency and reduced production incidents.
- Participated in on-call rotation and post-incident reviews; contributed to runbooks and reliability improvements.

Technologies: TypeScript, Node.js, Go, PostgreSQL, Redis, Docker, AWS (ECS, RDS, SQS)

SKILLS

Languages: Go, TypeScript, Python, SQL

Systems & Infrastructure: Kubernetes, Docker, Kafka, gRPC, Microservices, Distributed Systems, Event-Driven Architecture

Cloud & Observability: AWS (EKS, MSK, S3, RDS, SQS), Terraform, Prometheus, Grafana, OpenTelemetry

Data Stores: PostgreSQL, Redis, Cassandra

Practices: System Design, SLOs & Error Budgets, CI/CD, Technical Mentorship, Incident Response

EDUCATION

Doctor of Business Administration (DBA) — Capella University

Master of Business Administration (MBA) — Capella University

Bachelor of Science in Computer Science — Capella University