

Ashans Khadka

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Senior DevOps engineer with ~6 years building and operating reliable data infrastructure – MongoDB, Kubernetes, Terraform, and data-retention at scale. Known for root-cause rigor, production incident response, and systems that remain maintainable through the next migration.

EXPERIENCE

Senior DevOps Engineer, *Ada*

2023 – Present

Cloud Infrastructure

- Technical lead for replacing a third-party compliance vendor with an in-house, domain-driven data-deletion API in **one month**, bringing regulatory deletion fully in-house and cutting six-figure annual licensing costs.
- Completed every major **MongoDB engine upgrade** from 4.4 through 8.0 across **5 production + 2 pre-production environments**, with reusable runbooks and validated rollback; recognized org-wide as the MongoDB subject-matter expert.
- Built Ada's first **Azure production environment** end-to-end – AKS, VNet, ArgoCD bootstrap, edge routing, and secure cross-cloud access.
- Led the 2025 Amazon EKS v1.30 upgrade and cross-functional discovery for a multi-region, cell-based disaster recovery architecture, including audits of data-access patterns and routing requirements.
- Built a Datadog dashboard that consolidated health signals across CloudFront, Global Accelerator, Network Load Balancers, CoreDNS, and NGINX Ingress.
- Reduced deployment image build times by **20%** by improving Amazon ECR layer caching.
- Upgraded and operated Atlantis for infrastructure-as-code workflows and designed a phased Terraform-to-OpenTofu migration that avoided a full cutover.

Software Engineer, *Ada*

2020 – 2023

Data Platform

- Built Ada's original MongoDB regulatory-deletion services and scaled them across production regions; integrated a third-party workflow for GDPR/CCPA data-subject requests.
- Built and operated MongoDB CDC infrastructure – Debezium/Strimzi on Kubernetes → MSK Serverless → S3/Databricks Delta Lake – with validation showing **100% agreement** between Kafka and landing data, presented org-wide.
- Led the MongoDB 4.4 upgrade and two Apache Airflow upgrades.

Data Engineer / Developer, *Ada*

2019 – 2020

Co-op & Contract

- Built and supported client data-export reporting and Airflow workflows.

Software Developer, *The Nielsen Company*

2016, 2018

Co-op

- Built a C#/COM analytics dashboard over Excel data; safeguarded data integrity during database migrations with dynamic SQL and Bash tooling.

TECHNICAL SKILLS

CLOUD & INFRA

AWS, Azure, Kubernetes (EKS/AKS), Terraform / OpenTofu / Terragrunt, Helm, ArgoCD, Atlantis, Docker

DATA & STREAMING

MongoDB / Atlas, PostgreSQL / RDS, Redshift, ClickHouse, Kafka / Debezium, Apache Airflow, Databricks

LANGUAGES

Python, Go, Bash, SQL, JavaScript / TypeScript

RELIABILITY & DELIVERY

Datadog, PagerDuty, Sentry; GitOps, IaC, CI/CD, incident response, GDPR/CCPA compliance, DDD

EDUCATION

University of Waterloo – BAsC, Computer Engineering

2020