

SHUBHAM KUMAR

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OBJECTIVE

Results-driven Platform Engineer with 5+ years of experience designing, securing, and operating Kubernetes-based data infrastructure at scale. Holder of the full Kubernetes certification trifecta (CKA, CKAD, CKS) with deep expertise in AWS (EKS, IAM/IRSA, Lambda, S3), Helm, GitHub Actions CI/CD, and observability stacks (Prometheus, Grafana, Thanos). At Dremio, I lead customer-facing professional services engagements, build production-grade CI/CD pipelines, and deliver Dremio deployments on EKS and OpenShift. Passionate about automation, Kubernetes security hardening, and bridging platform operations with developer experience.

SKILLS

Container Orchestration: Kubernetes (EKS, OpenShift), Docker, Helm, Karpenter, ArgoCD
Kubernetes Security: OPA/Gatekeeper, Falco, AppArmor, seccomp, PSA, RBAC, NetworkPolicy
AWS Cloud: EC2, S3, EKS, Lambda, ECR, IAM, IRSA, Pod Identity, ALB/NLB, ACM, Route53
Observability: Prometheus, Grafana, Thanos, Alertmanager, Loki, Alloy, ELK, CloudWatch
CI/CD: GitHub Actions (OIDC), Jenkins
Infrastructure as Code: Terraform, Helm, Boto3
Data Lakehouse: Dremio, Apache Iceberg, Nessie, Parquet, Apache Airflow, Marquez, OpenLineage
AWS Big Data Services: Glue, Lake Formation, Datazone, SageMaker
Scripting & Automation: Python, Flask, Shell Scripting
Databases: PostgreSQL, Neo4j
Version Control: GitHub, GitLab
Ticketing & Documentation: JIRA, Confluence
Additional Tools: Cloudera Data Platform, Databricks, NABU, PowerBI, OutSystems

EXPERIENCE

Platform Engineer

Dremio

December 2025 – Present

Hyderabad, India (Remote)

- Lead customer-facing **professional services engagements**, delivering production Dremio deployments on **EKS, OpenShift and other flavour of K8s** for enterprise clients.
- Built **GitHub Actions CI/CD pipelines** with **OIDC authentication** (keyless AWS access via IRSA) for automated Docker builds, ECR pushes, and Helm chart deployments.
- Built **Grafana dashboards** backed by Prometheus and **OpenTelemetry** with custom PromQL for coordinator/executor memory, long-running jobs, and direct memory utilization alerting.
- Implemented the **DAaaS Alert Lambda** - an EventBridge-triggered AWS Lambda that routes Grafana alerts to **Zendesk tickets**, with SQS buffering and GitHub Actions-managed deployments.
- Authored full **Helm charts** with parameterized values, environment-specific overrides, and Kubernetes resource templates for an internal product.
- Conducted **Dremio SQL analysis** of query performance data (queue wait, planning, execution times) across Iceberg-backed facts tables for customer capacity planning decisions.
- Configured **S3 lifecycle policies** for cost-optimized tiered storage on operational data buckets.

Platform DevOps Engineer

Modak Analytics LLP

June 2021 – December 2025

Hyderabad, India

- Deployed and managed **Big Data platforms** across **AWS** and **Cloudera CDP**, supporting scalable and reliable data processing pipelines.
- Set up end-to-end **monitoring and observability** using **Prometheus, Grafana, Thanos, Loki, Alloy, and Alertmanager**, reducing manual monitoring effort by **50%**.

- Built and maintained **CI/CD pipelines** using **Jenkins** and **ArgoCD** to automate infrastructure provisioning and application deployments, cutting deployment time by **30%**.
- Managed and optimized **5+ AWS EKS clusters** with custom configurations for networking (CNI), storage (EBS, EFS), auto-scaling, security, and cost optimization.
- Deployed Apache **Airflow on EKS** using Helm; integrated **Marquez** for data lineage tracking via OpenLineage.
- Ran **Spark on EKS** for ML workloads, replacing vendor-managed instances and reducing infrastructure costs by **40%**.
- Migrated Cloudera CDE Spark jobs to Airflow, achieving **30%** savings on vendor licensing costs.
- Set up **Karpenter** on EKS for dynamic node provisioning and cost-efficient resource utilization.
- Deployed and optimized **Neo4j** — including backups, Prometheus/Grafana monitoring, version upgrades, and instance-level constraint tuning to reduce subscription costs.
- Collaborated directly with clients to execute business-critical tasks and deliver timely, high-quality results.

EDUCATION

Bachelor of Engineering in Electronics and Communication
Chandigarh University, India

2017 – 2021

CERTIFICATIONS

- **CKS:** Certified Kubernetes Security Specialist [Certificate](#)
- **CKA:** Certified Kubernetes Administrator [Certificate](#)
- **CKAD:** Certified Kubernetes Application Developer [Certificate](#)
- AWS Certified Solutions Architect – Associate [Certificate](#)