Shubham Kumar

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SUMMARY

Results-driven Platform DevOps Engineer with 4 years of experience in designing, automating, and optimizing Big Data and Cloud infrastructure. Proven success leveraging AWS (EC2, S3, RDS, VPC, IAM, EKS, Lambda, ECR, Route53), Kubernetes and CI/CD (Jenkins, GitHub Actions) to achieve significant improvements, including a 30% reduction in deployment time and a 40% decrease in infrastructure costs. Passionate about scalability, automation, and observability, I bridge the gap between development and operations to deliver high-performance, cost-effective solutions.

SKILLS

AWS Cloud: EC2, S3, RDS, VPC, IAM, EKS, AWS Lambda, ECR, Route53
AWS Big Data Services: Glue, Lakeformation, Datazone, SageMaker
Version Control: GitHub, GitLab
Scripting & Automation: Python, Shell Scripting
CI/CD: Jenkins, GitHub Actions
GitOps: ArgoCD
Infrastructure as Code: Terraform, Boto3
Monitoring: Amazon CloudWatch, Grafana, Prometheus, Loki, ELK
Container Orchestration: Docker, Kubernetes
Databases: PostgreSQL
Ticketing & Documentation: JIRA, Confluence
Additional Tools: Cloudera Data Platform, NABU, Karpenter, Helm, OutSystems, PowerBI, Neo4j

EXPERIENCE

Platform DevOps Engineer   Modak, Hyderabad
June 2021 – Present

- Deployed Big Data Platforms on **AWS and Cloudera environments**.
- Set up new applications from third-party vendors and performed upgrades on them.
- Demonstrated proficiency in Linux, AWS, Kubernetes, Helm, Jenkins, Argo CD and Neo4j technologies.
- Dedicated and maintained in-house **ETL tool**.
- Provided 24*7 support for Nabu and Cloudera CDP.
- Successfully deployed Apache **Airflow on EKS** using Helm
- Deployed Marquez on EKS cluster and integrated it with Airflow to get Data Lineage using OpenLineage.
- Utilized Jenkins as a CI/CD tool to orchestrate infrastructure creation and application deployment resulting in a 30% reduction in deployment time.
- Spearheaded the implementation of Prometheus, Grafana, and Alert Manager for infrastructure and application monitoring. Facilitated timely issue detection through email alerts, reducing manual monitoring efforts by 50%.
- Utilized Spark on EKS cluster to run ML spark sessions removing vendor spun instances which reduced the total cost by 40%.
- Migrated Cloudera CDE spark jobs to Airflow saving 30% on vendor cost.
- Installed neo4j application, optimized the performance through configurations as per client's request.
- Reduced Neo4j subscription cost through instance-level constraints.
- Set up Karpenter in the EKS cluster for optimum resource utilization and cost savings.
- Managed neo4j application performing various activities such as backup, monitoring through prometheus and grafana, and upgrades.

EDUCATION

Bachelor of Engineering in **Electronics and Communication**
Chandigarh University, India
Graduation Year: 2021

CERTIFICATIONS

CKA: Certified Kubernetes Administrator   Certificate
AWS Certified Solutions Architect - Associate   Certificate
Databricks Accredited Platform Administrator   Certificate
Cloudera Technical Professional (CTP)   Certificate