

VISHNU AGARWAL

Senior DevOps Engineer | Remote

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PROFESSIONAL SUMMARY

Senior DevOps Engineer with 6+ years of experience in cloud infrastructure, platform reliability, and large-scale automation. Proven expertise in AWS, Kubernetes, Terraform, CI/CD, database engineering, and streaming platforms. Strong background in driving cost optimization, security hardening, and high-availability architectures for SaaS and data-intensive systems.

CORE SKILLS

AWS, Kubernetes (EKS), Terraform, ArgoCD, Argo Workflows, Kafka, Databricks, PostgreSQL, Aurora, Redis, Valkey, OpenSearch, CI/CD, Python, Bash, GitOps, FinOps, Observability, Security Engineering, IAM, VPC, Route53, Nginx, OpenVPN, Datadog, Squadcast, PagerDuty, SSM Parameter Store, Elasticache, S3, EC2, ECR, GitLab CI, Ansible, Node.js, Java, Spring Boot

PROFESSIONAL EXPERIENCE

Teikametrics — Senior DevOps Engineer (Remote)

Nov 2022 – Present

DATABASE ENGINEERING

- Led migration POC from RDS to Aurora PostgreSQL, designing parallel infra to benchmark cost and performance
- Engineered Aurora cluster topologies including provisioned and serverless writers/readers
- Implemented blue-green deployments for database downsizing ensuring zero downtime
- Tuned PostgreSQL parameters and implemented RDS Proxy to fix high concurrency issues
- Led major PostgreSQL version upgrades and resolved Flyway compatibility issues

CLOUD INFRASTRUCTURE & NETWORKING

- Architected staging OpenVPN infra and managed lifecycle including security patching
- Resolved intermittent VPN connectivity issues for secure access to private subnets
- Migrated traffic from Convex LB to centralized Nginx Ingress
- Implemented VPC peering, Route53 DNS, DMARC/DKIM, and security groups

- Implemented Terraform-based rate limiting on ingress

KUBERNETES & GITOPS

- Upgraded EKS clusters from v1.24 to v1.33 ensuring addon compatibility
- Implemented HA for ArgoCD, Argo Workflows, and Cluster Autoscaler
- Optimized Argo Workflows reliability and safely decommissioned legacy clusters

DATA ENGINEERING & STREAMING

- Migrated Databricks infra to Terraform with full state management
- Implemented service principals and Unity Catalog credentials
- Managed Kafka ecosystem including retention tuning and ACL governance
- Built Kafka lag monitoring in Datadog

CI/CD & DEVOPS TOOLING

- Built secure CI tunnels for integration tests to access private infra
- Fixed Java OOM pipeline failures via resource optimization
- Built Python CLIs tm-ctl and tf_bootstrap to standardize Terraform bootstrapping
- Enhanced TerraformCD tooling with safety controls and drift detection

CACHING & RELIABILITY

- Led Redis to Valkey migration with zero data loss
- Scaled ElastiCache clusters for Prime Day traffic and tuned eviction policies

FINOPS & COST OPTIMIZATION

- Migrated RDS fleets to Graviton and GP3 for cost-performance gains
- Implemented aggressive S3 lifecycle rules to reduce storage costs
- Investigated AWS budget overruns and removed unused resources

OBSERVABILITY & INCIDENT RESPONSE

- Implemented Datadog monitoring for RDS, Kafka lag, and services
- Managed OpenSearch upgrades and Vector log pipelines
- Integrated alerts with Squadcast and PagerDuty for Sev1 automation

SECURITY & ACCESS MANAGEMENT

- Migrated secrets to AWS SSM Parameter Store
- Led emergency credential rotations for OpenSearch and Aiven

- Re-architected IAM and Databricks permissions with least-privilege model

Infosys — Specialist Programmer, DevOps Lead (Bengaluru)

Jun 2020 – Nov 2022

Project: Finacle OePayments (Edgeverve) - Payment solutions (NEFT, RTGS, UPI) deployed at multiple banks

DEVOPS & CI/CD

- Developed CI/CD pipeline using GitLab CI for payment solutions
- Established DevOps processes and conducted team awareness programs
- Managed and coordinated with a team of 4 engineers, increasing team performance by 50%
- Spearheaded client delivery scripts and implementation support with Ansible and Bash

SECURITY & COMPLIANCE

- Devised licensing code and integrated it to internal license provider
- Supervised FOSS scan for licensing checks; developed component for automated FOSS scan on GitLab CI
- Enhanced efficiency by 250% with customized FOSS scan integration artifact with Black Duck
- Integrated Seeker Scan in K8s to do dynamic code scan (Interactive App Security Scan - IAST)
- Applied Security Vulnerability fixes in code to the process

KUBERNETES & INFRASTRUCTURE

- Organized infrastructure components like Redis, RabbitMQ, InfluxDB as well as Grafana on VM and as pods on K8s
- Utilized multiple environments for Kubernetes/Istio, DevOps and Test activities on On-Premise, AWS and GCP environment
- Created Bash/Linux utility to reset, refresh k8s area and image tagging utility to tag stable, latest build of apps
- Implemented Login-Logout Architecture design, and associated with JWT, OAuth 2.0
- Used Grafana SSO integration with in-house IDP and applied Grafana startup configuration and deployment

PERFORMANCE OPTIMIZATION

- Performed System Performance Testing with JMeter, Oracle/PG db, Redis and Redis Sentinel
- Maximized app performance using tools like JMeter, Grafana & Flame-Graph to achieve 3x TPS increase

Infosys — System Engineer Specialist, Java Spring-Boot Developer (Bengaluru)

May 2019 – Jun 2020

Project: Nexus (CareFirst BlueCross BlueShield) - Healthcare re-imaging product with latest tech stack and cloud implementation

- Created Spring Boot app to implement business logic using Kafka and Postgres DB
- Independently developed Kafka POC in initial phase of project to implement Kafka library
- Implemented logging and log masking
- Proficiently developed Apigee integrations
- Developed Authorization Architecture with Open Policy Agent and Kubernetes
- Participated in internal hackathon

EDUCATION

B.Tech in Computer Science

2015 – 2019

SRM Institute of Science & Technology, Chennai, India

CGPA: 8.92

AWARDS & RECOGNITIONS

- Certificate of Excellence - STG Ninja Award for Individual Performance (2022)
- ESOP for Outstanding Performance (2021-2022)
- Insta Award for contribution towards Nexus, CareFirst (2019)

CERTIFICATIONS

- AWS Certified Developer - Associate (2020)