Saksham Srivastava

DevOps / Platform Engineer | Kubernetes, AWS, Linux & Networking
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SUMMARY

DevOps and platform engineer with about 2 years of experience (including an internship) running production Kubernetes for a multi-tenant SaaS, as one of 3 infrastructure engineers: 7 clusters (5 on Amazon EKS, 2 on managed Kubernetes with bare-metal workers), ~80 nodes and ~160 services. Cut compute cost ~25-30% with an ARM64 migration of 50+ services and trace storage growth ~95% with an open-source OpenTelemetry extension. Merged upstream fixes in OpenTelemetry and fluent-bit.

TECHNICAL SKILLS

Linux & Networking	Linux, TCP/IP, DNS, L4/L7 load balancing, TLS, PROXY protocol, iptables
Kubernetes	Kubernetes (managed bare-metal, Amazon EKS), Karpenter, Helm, CoreDNS, Envoy Gateway, NGINX Ingress, cert-manager, Velero, kubebuilder
Containers & CI/CD	Jenkins, Docker, multi-arch builds (amd64/arm64), Harbor, Trivy
Cloud, IaC & Security	AWS (EKS, EC2, IAM, IRSA, Route 53, S3, RDS), Terraform, Kubernetes RBAC, secrets management
Observability	OpenTelemetry (Java agent, Collector, Operator), Elasticsearch / ECK, Kibana, Elastic APM, Prometheus
Languages	Bash, Python, Go, SQL

PROFESSIONAL EXPERIENCE

DevOps Engineer, Enveu Aug 2025 - Present | Remote

Multi-tenant SaaS (OTT streaming, workflow automation, subscription billing). One of 3 infrastructure engineers running 7 production Kubernetes clusters: 5 on EKS with Karpenter spot capacity, 2 on managed Kubernetes with bare-metal workers.

- **Cut compute cost ~25-30%** at constant scale and workload by migrating 50+ services from AMD64 to ARM64 with zero downtime. Designed and built the Jenkins pipeline solo: amd64 and arm64 Docker builds in parallel on native machines, merged with buildx into one multi-arch tag pushed to the registry, then graceful per-service rollouts.
- **Cut trace storage growth ~95%** (60 GB every 6 hours to 60 GB every 4-5 days) with an open-source OpenTelemetry Java agent extension that drops the traces of a 100 ms outbox-check job and its child spans before export. The job is service-critical and could not be disabled, so only its traces are dropped.
- **First responder on an AWS access-key exposure:** detected it, scoped the blast radius with CloudTrail, rotated the exposed credentials and led a company-wide SSH key rotation. Designed the move from long-lived keys to IRSA and cross-account Route 53 role chaining, with zero production downtime. Wrote the postmortem and runbook.
- **Owned traffic routing and TLS on the 2 bare-metal clusters:** automated ACME TLS behind the provider's L4 load balancer. Resolved broken hairpin traffic (in-cluster calls to public hostnames lost the PROXY protocol header) with CoreDNS rewrites.
- Fixed Flow's hour-long async jobs, which routinely failed on spot interruptions, node scale-downs and deploys, by handling SIGTERM and finishing in-flight work before exit.
- Ran a 600-VU load test that found saturation at 26% of target load and 32x span amplification; corrected CPU requests, and each service now sustains 400-500 transactions per minute.
- Contributed to the migration from NGINX Ingress to Envoy Gateway (Gateway API) ahead of the ingress-nginx retirement.
- Co-built infrastructure from launch for Flow (workflow automation) and Axis360 (subscription management): Jenkins CI/CD, Terraform (EKS, VPC, IAM, Lambda, CloudFront), secrets management and OpenTelemetry monitoring (kube-stack with ECK, Kibana and Elastic APM).
- Migrated QA from Docker to Kubernetes. Stood up a production S3-backed Harbor registry with replication, RBAC and Trivy image scanning.

DevOps Intern, Careers360 Dec 2024 - Aug 2025

- Right-sized over-provisioned cloud infrastructure with no downtime, cutting cost 40%.
- Implemented Velero backups for Kubernetes cluster resources and persistent volumes.

OPEN SOURCE & PROJECTS

- **opentelemetry-helm-charts #2377** (merged): fixed the kube-stack chart schema rejecting *instrumentation.java.extensions*, which blocked installing Java agent extensions via Helm.
- **fluent-bit** (merged): fixed the install script failing silently on Debian/Ubuntu after the package host began redirecting to S3.
- **otel-pattern-sampler** (Java, MIT): the trace-dropping extension above; a parent-based sampler decorator.
- **cyclops** (Go, alpha): kubebuilder controller that flags cert-manager Certificates that are expired, never issued or overdue for renewal, with cert-manager's own failure reasons. Email reports via SMTP or SES, tested on a kind cluster.

EDUCATION

B.Tech, Computer Science and Engineering, Shiv Nadar Institution of Eminence, Delhi NCR 2021 - 2025

PUBLICATIONS

Investigating Cultural Bias: A Comparative Study of Large Language Models. First author. *PReMI 2025*, *Springer LNCS 16357* (2026).
Benchmarking LLM-Powered Chatbots: Methods and Metrics. Co-author. *arXiv:2308.04624* (2023).