SREYAS S

DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven DevOps / SRE Engineer with 5 years of hands-on experience designing, automating, and operating highly available cloud infrastructure on AWS. Proven track record leading platform migrations (SOPS → Vault, CircleCI → GitHub Actions), driving 100+ RDS major-version upgrades, and delivering measurable cost reductions through infrastructure right-sizing and consolidation. Comfortable owning end-to-end reliability from architecture review through on-call production support.

CORE SKILLS

Cloud (AWS)	EC2, VPC, ELB, S3, IAM, Route 53, ALB, CloudFront, SQS, SNS, MSK, AppConfig, KMS, ACM, DMS, OpenSearch, Bedrock, Lambda, API Gateway
Databases	RDS PostgreSQL, DocumentDB, ElastiCache Redis, AWS Redshift, DynamoDB
IaC	Terraform, AWS CloudFormation
CI/CD	GitHub Actions (self-hosted runners), CircleCI
Containers	Docker, Kubernetes (EKS), Helm, Karpenter, K3s
Monitoring	IBM Instana, Prometheus (AWS Managed), Grafana (AWS Managed), AWS ADOT, CloudWatch
Logging	Fluentbit, Kinesis, Kibana, CloudWatch Logs
Security	HashiCorp Vault, WAF, GitHub Advanced Security, SOPS, OIDC
Scripting	Bash, Python
GenAI / ML	AWS Bedrock, RAG, LangChain, LLaMA 2, ChromaDB

PROFESSIONAL EXPERIENCE

DevOps Engineer | Yara International | *2021 – Present*

5 years · Bangalore, India

AWS Cloud Infrastructure & SRE Support

- Designed and operated multi-environment AWS infrastructure (EC2, VPC, ELB, EFS, ASG, S3, IAM, CloudWatch, Route 53) ensuring high availability and security compliance.
- Authored and maintained reusable Terraform modules across projects; integrated third-party tools (AccelQ, Cerbos, Strapi CMS, Temporal) into the platform.
- Provided on-call SRE support during high-traffic campaigns and production releases.
- Mentored 2 engineering interns — assigned structured tasks, reviewed PRs, and guided delivery quality.

RDS PostgreSQL Major Version Upgrades

- Led sequential upgrades of 100+ PostgreSQL RDS instances across all environments — PostgreSQL 11 → 12, then 12 → 16 — with zero data-loss incidents.
- Authored upgrade runbooks, coordinated with multiple development teams, and managed change windows to minimise service disruption.

Database Administration

- Managed user provisioning, access control, extensions, and schema management for PostgreSQL RDS, DocumentDB, and Redshift.
- Performed root-cause analysis and live recovery for production database incidents, minimising MTTR.

EKS Version Lifecycle Management (v1.20 → v1.33)

- Supported continuous EKS cluster upgrades over three years, owning proof-of-concept validation and runbook preparation before each production upgrade.
- Identified add-on and workload incompatibilities in staging, preventing breaking changes from reaching production.

ALB Implementation on EKS (AWS Load Balancer Controller)

- Led POC and full production rollout of the AWS Load Balancer Controller, ExternalDNS, and Ingress resources — improving traffic routing reliability and observability.

Observability Platform — AWS Managed Prometheus & Grafana

- Architected an end-to-end monitoring stack for Temporal workflows: AWS ADOT collector → Amazon Managed Prometheus → Amazon Managed Grafana, with Azure Entra ID SSO.
- Tuned ADOT collector to filter and transform high-cardinality Temporal metrics, reducing metric ingestion volume and controlling AWS monitoring costs.

GenAI Agronomic Chatbot — Architecture Review

- Served as architecture reviewer and approver for a third-party RAG-based chatbot built on Amazon Bedrock, OpenSearch, API Gateway, Lambda, and DocumentDB.
- Ensured solution met security, scalability, and operational standards before production sign-off.

Cloud Cost Optimisation

- Conducted end-to-end infrastructure audit; proposed and executed decommission of legacy services, saving recurring compute costs.
- Recommended consolidating low-criticality RDS instances (single-instance multi-database pattern) and right-sized EKS pod resource requests, enabling node count reduction.
- Proposed load balancer consolidation in non-production environments, further trimming monthly AWS spend.

Secrets Management Migration — SOPS → HashiCorp Vault

- Designed and implemented Terraform-provisioned Vault roles enabling Kubernetes service accounts to authenticate via Vault Agent Injector.
- Updated Helm charts for 35+ services to adopt Vault-native secret injection, eliminating plaintext secrets from Git repositories.

CI/CD Platform Migration — CircleCI → GitHub Actions

- Migrated 35+ service pipelines from CircleCI to self-hosted GitHub Actions, eliminating third-party SaaS costs and improving pipeline observability.
- Deployed Karpenter-managed Spot EC2 nodes on EKS to auto-provision GitHub Actions runners, cutting CI compute costs by leveraging Spot pricing.

PERSONAL PROJECTS

Home Lab Kubernetes Cluster — *Oct 2024 – Present*

- Built a Raspberry Pi single-node Kubernetes cluster using K3s with Traefik ingress and MetalLB load balancer, enabling path-based service routing.
- Exposed services securely to the internet via a Cloudflare Tunnel acting as a zero-trust reverse proxy.

  Stack: K3s · Docker · Helm · Traefik · MetalLB · Cloudflare

AI DevOps Chatbot (RAG) — *Mar 2024*

- Developed a self-hosted RAG chatbot that ingests DevOps documentation and responds to operator queries using LLaMA 2 served via Ollama in Docker.
- Implemented retrieval pipeline with LangChain + ChromaDB for context-aware, low-latency responses.

  Stack: Python · LLaMA 2 · RAG · LangChain · ChromaDB · Ollama · Docker

EDUCATION

B.E., Electronics & Instrumentation Engineering — CGPA 8.4 / Distinction

Amrita School of Engineering, Bangalore | Aug 2017 – 2021