



# SREYAS S

DevOps Engineer

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## PROFILE

DevOps Engineer with 4+ years of experience building and operating scalable, secure, and cost-efficient AWS infrastructure. Skilled in Terraform-based Infrastructure as Code, Kubernetes-driven container orchestration, and implementing CI/CD pipelines using GitHub Actions and CircleCI. Strong background in DevOps and SRE practices, including automated provisioning, deployment strategies, monitoring, and observability, with a focus on high availability, performance, and cloud cost optimization in production environments.

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## EXPERTISE

**Cloud:** AWS - S3, Route53, IAM, SQS, DMS, ALB, Cloudfront, SNS, MSK, AppConfig, Open Search, KMS, ACM

**Database:** RDS-PSQL, Document DB, ElastiCache Redis, AWS-Redshift, DynamoDB

**IAC:** Terraform, AWS CloudFormation

**CI/CD:** GitHub Actions, CircleCI

**Monitoring:** IBM Instana, Grafana, Prometheus

**Logging:** Kinesis, Kibana, Fluentbit, CloudWatch

**Orchestration:** Docker, Kubernetes, Helm

**Security:** HashiCorp Vault, WAF, GitHub Advanced Security, SOPS

**Scripting:** Bash, Python

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## WORK EXPERIENCE

### Yara International - DevOps Engineer

2021 - Present

- **Cloud Infrastructure Management :** Designed, managed, and optimized cloud infrastructure on AWS (EC2, VPC, ELB, EFS, S3, ASG, ACM, IAM, RDS, CloudWatch, Route 53), **ensuring high availability, security, and cost-efficiency** across environments.
- **Cloud Cost Optimization:** Performed end-to-end cost and architecture analysis across multiple AWS environments, assessing **EC2, RDS, DocumentDB, ElastiCache, and OpenSearch** and many other components, and driving optimization strategies that achieved a **50% cost reduction**.
- **Kubernetes Management:** Deployed and orchestrated **containerized microservices** using **Dockerfiles** and **Helm chart** configurations on **AWS EKS**, including **cluster upgrades** and lifecycle management. Designed and managed AWS infrastructure with **VPC, subnetting, networking, ECR, and load balancers** to ensure secure and scalable deployments.
- **Database Administration:** Managed **PostgreSQL, Document DB and Redshift DB** platform operations, handling **user and access management, extension configuration, live incident recovery, and root cause analysis(RCA)**, contributing to improved platform reliability and operational excellence.
- **Database Cost reduction:** Led consolidation of databases from **single-tenant to multi-tenant architecture** across **Amazon RDS** and **DocumentDB**, driving significant cost reduction. Executed data migrations using **AWS DMS** for large workloads and **pg\_dump/pg\_restore** for smaller databases, ensuring data integrity and minimal downtime.
- **CircleCI to Github Actions Migration:** Executed **large-scale CI/CD migration** from CircleCI to GitHub Actions, **refactoring over 40+ pipelines**, introducing **reusable workflows**, and formalizing development workflows to **improve consistency and maintainability**.

- **Data Team collaboration:** Collaborated with data teams to set up and support **data pipelines**, including **Redshift-based access management** and **AWS DMS configurations**. Implemented **CloudWatch alarms** and **SNS alerts** to enable proactive **monitoring, reliability, and timely incident response**.
  - **Source Control & Collaboration:** Proficient in Git operations including **repository setup, branching strategies, tagging, and commit management** to enable efficient version control and team collaboration. Experienced with **GitHub Advanced Security**, leveraging **code scanning, secret scanning, and dependency analysis** to strengthen application security.
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## EDUCATION

### Amrita School of Engineering

Electronics & Instrumentation Engineering | CGPA : 8.4 (Distinction)

**Bangalore, Karnataka**

Aug. 2017 – May 2021

### Vijayagiri Public School

XII CBSE | Marks : 91%

**Chalaky, Kerala**

Aug. 2015 – May 2017

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## PROJECTS

### Home Lab

October 2024 – Present

#### Kubernetes, Docker, Helm, Raspberry Pi, Cloudflare, MetalLB, Traefik

- Designed and implemented a raspberry Pi based **single node kubernetes cluster** setup using **K3s**, a lightweight distribution of kubernetes
- Routing configured via **Traefik ingress and MetalLB loadbalancer** achieving path based routing
- **Cloudflare tunnel** acting as a **reverse proxy** to expose the services to the internet
- Find the architecture diagram at [arch.ssreyas.com](https://arch.ssreyas.com)

### AI Chat Bot

March 2024

#### Python, LLM-LLAMA2, RAG, Chroma DB, Lang Chain

- Build a chatbot using **Retrieval Augmented Generation (RAG)** methodology combined with **LLM**
- RAG was used to tokenize and retrieve relevant chunks of data based on the user prompts
- LLM is used to analyze and provide best responses based on the user prompt along with retrieved data chunk
- All the setup was self-hosted using **ollama** running in **docker** container and **python** based **terminal UI**