

# Sreyas S

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## EXPERIENCE

### Yara International

#### DevOps Engineer

Bangalore

June 2024 - present

- Single point of contact for the digital team for all things devops
- As part of **cost-optimization** requirement from the digital team, worked across the infra in recommending and executing cost optimization activities which culminated with a **50% reduction** in cost

#### Associate DevOps Engineer

Sep 2023 - May 2024

- Part of 2 member dedicated support for one of the digital teams in end-to-end devops support - **AWS infra provisioning, pipeline management, Helm charts, k8s cluster management and deployments**
- Being accountable to **team leads and business leads** in achieving their **deliverables on time**
- **Migrated 30+ pipelines** as part of CI/CD migration from **CircleCI to GitHub Actions**

#### Trainee Engineer

Sep 2023 - May 2024

- Building competence in various tools like **Terraform, Helm charts, CI/CD pipeline (CircleCI), Monitoring (Instana) and logging (Kibana)**
- Took initiative in **automating manual database user access management process**. Developed in **python**, the script greatly **improved productivity, efficiency and time to delivery** for devops engineers

## TECHNICAL SKILLS

**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

## PROJECTS

### Home Lab | Kubernetes, Docker, Helm, Raspberry Pi, Cloudflare, MetalLB, Traefik

October 2024 – Present

- 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
- Access this resume deployed in the cluster at [cv.ssreyas.com](http://cv.ssreyas.com)

### AI Chat Bot | Python, LLM-LLAMA2, RAG, Chroma DB, Lang Chain

March 2024

- 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**

### Air Touch | Python, Machine Learning - KNN, Arduino Uno, Bluetooth

January 2021 – March 2020

- A system to control the cursor on screen by hand motion along with hand gestures to replicate click functions
- **K - Nearest Neighbours (KNN) Machine Learning classifier** was used to classify **Electromyography Signals (EMG)** captured from the skin to identify **hand gesture (Clenched fist / Hand at rest)**
- Cursor positioning on the screen was determined by an accelerometer sensor attached to the hand
- A Python program runs on the host which accepts both the **sensor data and EMG signals** send over **Bluetooth** and interprets the cursor position on the screen and the **cursor action (single click/double click/do nothing)** to be performed based on **prediction against trained KNN model**

## EDUCATION

### Amrita School of Engineering

Bangalore, Karnataka

Electronics & Instrumentation Engineering | CGPA : 8.4 (distinction)

Aug. 2017 – May 2021

### Vijayagiri Public School

Chalakudy, Kerala

XII CBSE | Marks: 91%

Aug. 2015 – May 2017