

NIKHIL CHAUHAN

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EXPERIENCE

Software Engineer (DevOps)

Unacademy

Mar 2024 - present

Bengaluru, KN

- Reduced **AWS** resource costs by **75%** through strategic optimization(Right sizing, RIs, optimization etc.).
- Designed and containerized microservices using **Docker**, then deployed them on **EKS** through custom **Helm** charts to optimize scalability and operations.
- Scaled and maintained infrastructure using **Karpenter** to support **100,000+ users** during peak traffic.
- Automated infrastructure provisioning using **Terraform** across multiple **AWS** environments.
- Integrated centralized logging with the **EFK stack** (Elasticsearch, Fluentbit, Kibana) for real-time log analysis.
- Managed data migration from **Amazon RDS** to **Redshift** using **Data Migration Service (AWS DMS)**.
- Deployed and managed **Apache Airflow** for data pipelines; authored **DAGs** to automate **ETL** scripts.
- Implemented observability with **SigNoz(OpenTelemetry)**, **CloudWatch**, and **New Relic**; optimized API performance using **New Relic APM**; integrated **Zenduty** for proactive alerting and incident response.
- Streamlined CI/CD flows using **GitHub Actions** and **CodePipeline** for faster and more reliable deployments.
- Implemented Role-Based Access Control (**RBAC**) to provide developers with principle-of-least-privilege access.
- Performing and troubleshooting production workloads on **Linux** servers, optimizing performance, **networking**, and system security.

DevOps Engineer

Samajh.AI

Apr 2023 - Mar 2024

Noida, UP

- Established an on-premise **Kubernetes** cluster on **Linux** using **Kubespray**, facilitating the deployment of a full-stack web application using **Helm Charts**.
- **Monitoring:** Implemented health monitoring of servers CPUs & GPUs using **Grafana** and **Prometheus**.
- Enhanced system stability and efficiency by automating configuration management through **Ansible** playbooks.
- Developed **Flask APIs** to seamlessly integrate ML/AI models for data-driven decision-making.
- Implemented a secure internal network using **Pritunl VPN** to safeguard data privacy.

PROJECT

- Developed a web-based chatbot using **TensorFlow**, **Keras**, and **IBM Sentiment Analysis API** to recommend songs based on user emotions.
- Built an end-to-end **Kubeflow** Pipeline for pre-processing, training, evaluation, and deployment with **KServe**, integrating **MLflow** for tracking and artifact management.

EDUCATION

Bachelor of Computer Science, Krishna Engineering College, AKTU

2020-2023

Diploma of Information Technology, IIT Dwarka

2017 - 2020

SKILLS

Cloud Platforms & Servers

AWS, Azure, GCP, Linux

CI/CD & Automation

GitHub Actions, CodePipeline, Ansible, Terraform, Apache Airflow

Containerization

Kubernetes (EKS), Docker, ECS, Helm, Karpenter, KServe, Kubeflow

Monitoring & Observability

Grafana, Prometheus, EFK Stack , New Relic, SigNoz, CloudWatch, Zenduty

Programming & DB

Python, MongoDB, MySQL, PostgreSQL, Redis