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Vaibhav Kapase

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 Portfolio

## EDUCATION

MIT Academy of Engineering, Pune

B.Tech in **ENTC** with specialization in Cloud Native DevOps, **CGPA: 8.13/10**

Nov 2020 — Aug 2024

**President, Student Council** — Led student council, organized events, and advocated for campus engagement and student welfare.

## PROFESSIONAL EXPERIENCE

Facctum Solutions Limited, Pune

Pune

Associate DevOps Engineer

Jan 2024 — Present

- **Tech stack:** AWS Cloud, Kubernetes (EKS), Helm, Jenkins, Terraform, Docker, CI/CD, Linux RedHat, Karpenter, Traefik.
- Designed and deployed scalable applications on **Kubernetes** (AWS EKS) using **Helm** and K8s manifests; leveraged **Karpenter** for auto-scaling and **Traefik** for ingress to ensure high availability and consistent performance.
- Created and managed high-availability **environments** on AWS (stage, UAT, prod) using Terraform for infrastructure provisioning, including DB setup, domain configuration, and secrets management; deployed **microservices-based** applications on **Kubernetes** (EKS) with strong fault tolerance.
- Migrated Jenkins servers to EC2 using Terraform automation and designed optimized, generic **CI/CD** pipelines with **Jenkins** (Groovy DSL), enhancing scalability, minimizing manual effort, and accelerating release cycles.
- **Led PoC** and production deployment of the open-source code quality tool **SonarQube** via **Helm** on Kubernetes with RDS PostgreSQL as external database; enabled **SSO** authentication with **Azure Entra ID** and integrated it with Jenkins CI/CD pipelines.
- Identified and addressed a **security gap** in AWS by leading a PoC and implementing **AWS TEAM** (Temporary Elevated Access Management) to manage secure, time-bound access across the organization.
- Designed and maintained AWS cloud infrastructure with **Terraform** (HCL), enabled reproducible, multi-environment, scalable architectures, and automated infrastructure provisioned to improve system reliability.
- Created and automated multiple pipelines for various tasks, **reduced manual intervention** across processes. Set up **Linux** cron jobs on Linux servers for task scheduled and automation, ensured smooth operations and consistency in system management.
- Learning and implementing centralized end-to-end **Observability** (monitoring, and logging) with Prometheus, Grafana, Loki, Fluent Bit, Thanos, and AWS CloudWatch to improve system visibility and enable proactive incident management.
- Actively **collaborate** with the application, QA, database, and support teams to resolve issues, optimize workflows, support deployments, and ensure consistent adherence to DevOps best practices in day-to-day operations.
- Managed **production releases** and **deployments**, collaborating with cross-functional teams to ensure system stability, **minimal downtime**, and seamless rollouts. Conducted risk assessments and post-deployment monitoring for smooth operations.
- Handled multiple **production incidents**, led root cause analysis (**RCA**), implemented corrective actions, and collaborated with teams to ensure alignment with **SLAs** and **SLOs** for continuous improvement.

## SKILLS

**AWS Cloud**      AWS EKS, EC2, IAM, S3, Lambda, CloudFormation, SQS/SNS, RDS, CloudWatch, VPC, Route53, SDK(Python Boto3).  
**DevOps Tools**      Git, GitHub, Docker, Jenkins, ArgoCD, Terraform, Kubernetes, Helm, Prometheus, Grafana, Loki, FluentBit, Thanos.  
**Technologies**      Python(Basics), OS Linux- RedHat, Shell Scripting, Computer Networking.

## ACHIEVEMENTS

CNCF CloudNativeHackathon Winner, CNCF Pune

June 2025

- Led Team **KubeTux** to victory at India's 1st inaugural **CNCF** CloudNativeHackathon. Developed a self-healing Kubernetes solution on **AWS** Cloud following **GitOps** principles using ArgoCD and tools like Terraform, Helm, Karpenter, and ESO to enable single-click, multi environment deployments with monitoring and observability in **SRE** contexts.


## CERTIFICATIONS

AWS Certified Solutions Architect SAA-C03 

Oct 2023 — Oct 2026

AWS Certified Developer Associate DVA-C02 

Apr 2023 — Feb 2026

AWS Certified Cloud Practitioner CLF-C01 

Jan 2023 — Oct 2026

## PUBLICATIONS

Enhancing Performance and Scalability of a Flutter-Based Food Ordering Application through Microservices on AWS  Oct 2024

- Publication: **Springer** ICRIIC 2023, Optimized food ordering app by implementing a **microservices** architecture on AWS with Docker, Kubernetes (EKS), and AWS Load Balancing, enhancing availability, fault tolerance, and performance.