

# Vaibhav Lokhande

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## Summary

DevOps Engineer with hands-on experience designing and maintaining CI/CD pipelines, container orchestration on AWS EKS, and infrastructure automation using Terraform and Ansible. Red Hat Certified Engineer (RHCE) and AWS Certified Cloud Practitioner with a strong Linux foundation. Proven ability to deploy and monitor production-grade microservices and maintain high system availability using ELK, Prometheus, and Grafana observability stacks.

## Experience

### DevOps / Kubernetes Intern

Jan 2026 – Present

VE3 Global — Remote

PromptX – AI/LLM Platform

- Engineered automated **CI/CD pipelines** using **GitHub Actions** and **Terraform**, cutting deployment time from **3+ hours to under 15 minutes** across Dev, Stage, and Prod EKS environments – a **~85% reduction** in manual provisioning effort.
- Managed production-grade **AWS EKS** clusters hosting **6 microservices**; configured **NGINX Ingress Controller** for traffic routing, ensuring **high availability** of deployed services.
- Deployed the **ELK Stack** inside Kubernetes aggregating logs from **6 services**, reducing mean time to identify incidents from hours to **under 20 minutes**.
- Developed modular **Terraform IaC** across **3 environments** (Dev/Stage/Prod), reducing infrastructure drift and cutting new environment spin-up time by **70%**.
- Performed **repository security hardening** – eliminated **30+ hard-coded secrets**, migrated all sensitive values to environment variables and **AWS Systems Manager Parameter Store**, reducing secret exposure risk to zero.
- Executed **EKS cluster version upgrades** with zero downtime by following rolling upgrade procedures – updated control plane, managed node groups, and add-ons (CoreDNS, kube-proxy, VPC CNI) in sequence while validating workload health at each stage.

PrimeX – TypeScript/Node.js Application

- Provisioned a complete AWS environment for a **TypeScript/Node.js** application using **Terraform** in under **30 minutes** (vs. **4+ hours** manually); infrastructure included 2 EC2 instances (app server + **Bastion Host**), **RDS**, and **ElastiCache**.
- Configured private subnet routing and security group rules to enforce zero direct database exposure, with all admin access gated through the Bastion Host.

### Linux / DevOps Student Intern

Nov 2024 – May 2025

Unnati Development And Training Center — Pune

- Administered **RHEL** systems covering user management, SELinux policies, firewalld rules, systemd services, and LVM storage management in a production-like environment.
- Deployed and managed containerized workloads using **Podman** and **Docker**; automated repetitive system tasks via **Bash scripting** and **Ansible** playbooks.
- Supported infrastructure automation workflows using **Git**, **Jenkins**, and **Kubernetes**, contributing to faster delivery cycles.

## Skills

- **CI/CD**: GitHub Actions, Jenkins, Pipeline-as-Code, YAML
- **Container & Orchestration**: Docker, Podman, Kubernetes (EKS, OpenShift), Helm, NGINX Ingress
- **Infrastructure as Code**: Terraform (modular), Ansible (Playbooks, Roles, Inventory)
- **Cloud (AWS)**: EKS, EC2, VPC, IAM, S3, ELB/ALB, CloudFront, Route 53
- **Monitoring & Observability**: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
- **Operating Systems & Scripting**: RHEL, Ubuntu Linux, Bash Scripting, Shell Automation
- **Version Control & Collaboration**: Git, GitHub
- **Programming**: Python, SQL

## Certifications

### Red Hat Certified Engineer (RHCE)

Feb 2026 – Feb 2029

Ansible Automation, Configuration Management

### Red Hat Certified System Administrator (RHCSA)

July 2025 – July 2028

Linux Administration: Users, LVM, Networking, SELinux, Firewalld, systemd, Shell Scripting

### Red Hat Certified Specialist in Containers

July 2025 – July 2028

Podman, Docker Container Management

### AWS Certified Cloud Practitioner

Mar 2024 – Mar 2027

AWS Core Services: EC2, S3, VPC, ELB/ALB, CloudFront, Route 53

## Projects

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### **MERN Stack Deployment on AWS EKS with Full Observability Stack**

*AWS EKS, Terraform, ELK Stack, Kubernetes HPA*

- Provisioned a production-ready **AWS EKS** cluster using **Terraform** with modular VPC, IAM roles, and managed node groups spanning multiple Availability Zones.
- Deployed a full MERN stack application on Kubernetes using Deployments, Services, and ConfigMaps; configured **Horizontal Pod Autoscaler (HPA)** to handle traffic spikes automatically.
- Integrated **ELK Stack** (Elasticsearch, Logstash, Kibana) for centralized log aggregation and observability, enabling rapid identification of application bottlenecks.

### **Multi-Tier Flask Application Containerization**

*Docker, Docker Compose, Podman, MySQL*

- Containerized a Flask web application with a **MySQL** backend using **Docker** and **Podman**.
- Defined a multi-container environment with **Docker Compose** (YAML), configuring networking, volume mounts, and environment variables for development and testing parity.

### **Apache Web Server Automation with Ansible**

*Ansible, AWS EC2, RHEL, SSH, Playbooks, Roles*

- Automated provisioning and configuration of Apache web servers across multiple **AWS EC2** (RHEL) nodes using **Ansible** playbooks and reusable roles.
- Configured passwordless SSH between the Ansible control node and managed nodes; deployed and verified application availability on port 80 via EC2 public IPs.

## Education

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**JSPM's Rajarshi Shahu College of Engineering, Pune**

*B.Tech in Computer Science and Engineering*

*Dec 2021 – June 2025*