Varad Kulkarni

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SUMMARY

DevOps Engineer with **~3 years of experience** building, automating, and operating **cloud-native, highly available platforms on AWS**. Strong expertise in **CI/CD pipelines, Infrastructure as Code (Terraform, Ansible), Kubernetes, GitOps, and event-driven architectures**. Proven experience designing **backup, restore, monitoring, and disaster recovery systems** used in production by **120+ enterprise customers**. Adept at improving system reliability, deployment speed, and operational efficiency.

EDUCATION

Government College of Engineering, Ch. Sambhajinagar   India
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.1   **June 2019 - June 2023**

SKILLS SUMMARY

- **Cloud Platforms:** AWS (EC2, S3, Lambda, DynamoDB, RDS, EBS, EFS, API Gateway, EventBridge, VPC, AWS Backup, IAM)
- **DevOps & IaC:** Terraform, Ansible, GitLab CI/CD, ArgoCD, GitOps
- **Containers & Orchestration:** Docker, Kubernetes, Helm, Rancher
- **Monitoring & Observability:** Amazon CloudWatch (Logs, Metrics, Alarms)
- **Programming & Scripting:** Python, Java, JavaScript, Bash
- **Databases:** DynamoDB, MySQL, MongoDB
- **Other Tools:** Git, GitLab, Boto3

TECHNICAL EXPERIENCE

Software Engineer | Pratiti technologies   **June 2023 – Present**
Client :- Siemens PLM Softwares

TeamcenterX Backup & Restore Platform

- Designed and implemented a **highly available, fault-tolerant backup and restore orchestration platform** on AWS using **event-driven microservices** and **REST APIs** built with **AWS Lambda**.
- Implemented **event-driven workflows** using **DynamoDB Streams and Amazon EventBridge** to reliably trigger and monitor backup jobs for **RDS, EBS, EFS, and EC2**.
- Integrated **AWS IAM roles and least-privilege policies** to securely access backup resources across multiple AWS accounts.
- Added **monitoring and logging** using **Amazon CloudWatch metrics, logs, and alarms** to track backup execution, failures, and recovery status.
- Developed a **restore automation pipeline** that minimized manual intervention and ensured consistent recovery during disaster scenarios.
- Delivered a production-grade solution actively used by **120+ enterprise TeamcenterX customers** for upgrades and disaster recovery.

TeamcenterX Monitoring & Operations Dashboard

- Designed and developed **REST API–based backend microservices** to monitor TeamcenterX environment health across multiple AWS accounts.
- Built **high-availability backend services** using **AWS Lambda, API Gateway, and VPC** with secure network isolation.
- Implemented **secure access controls** using **AWS IAM and secrets management**, enabling role-based access to environment operations.

- Integrated **centralized logging and monitoring** using **Amazon CloudWatch**, improving visibility into degraded states and operational failures.
- Enabled automated start/stop operations for environments, improving **cost efficiency and operational reliability**.

TeamcenterX Deployment Automation

- Contributed to building an **automated deployment pipeline** for containerized TeamcenterX environments using **GitLab CI/CD**
- Used **Ansible** as the orchestration layer to standardize and automate complex deployment workflows
- Implemented **GitOps-based deployments** using **GitLab GitOps Agent** and **Kubernetes Helm charts**
- Integrated **ArgoCD** for continuous delivery and environment synchronization
- Used **Rancher** and **AWS EC2 monitoring** to track health of Teamcenter services post-deployment
- Reduced deployment time from **~2 days (manual)** to **7–10 hours (automated)**

Containerization of TeamcenterX License Server

- Contributed to the **containerization of the TeamcenterX license server** to support Kubernetes-based environments
- Designed and implemented **Kubernetes deployment configurations** for scalable and reliable cloud-native deployment
- Migrated a **process-based license server** to a **container-compatible architecture**

TeamcenterX In-Place Upgrade Automation

- Developed automation to support **in-place upgrades** of TeamcenterX environments
- Implemented using **Ansible workflows** with **Python execution stages**
- Enabled **minor version upgrades** without provisioning new AWS resources
- Improved upgrade speed compared to the traditional **blue-green deployment strategy**

PERSONAL PROJECTS

Stack Overflow Clone | React, Node.js, MongoDB

- Built a full-stack Q&A platform with **JWT-based authentication**, role-based access control, and RESTful APIs.
- Implemented features including question/answer posting, voting, comments, and search with optimized MongoDB schema design.

E-Commerce Web Application | Java, Spring Boot, MySQL

- Developed a full-stack e-commerce application using **Spring Boot REST APIs** and relational data modeling.
- Implemented admin workflows for product and order management and built a responsive frontend using HTML, CSS, and JavaScript.

CERTIFICATION AND ACHIEVEMENTS

- **Oracle Certified Professional: DevOps Engineer (OCI)** (link)
- **LeetCode Rating: 1600+ (Top 25%) (link)** solved 450+ algorithmic problems