Ashish Sarawad
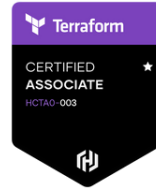*DEVOPS ENGINEER*

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Bengaluru, Karnataka - 560041

PROFESSIONAL SUMMARY

DevOps Engineer with 3 years of experience, specializing in optimizing and automating infrastructure management, streamlining CI/CD pipelines, and enhancing Kubernetes-based container orchestration and deployment scalability. Adept at implementing robust monitoring and security practices, I am eager to contribute to a dynamic organization that values innovation and efficiency.

WORK EXPERIENCE

DevOps Project Intern: BIDS Pvt Ltd | Bijapur, India   **September 2021 - March 2022**

- Collaborated with senior devops to construct terraform scripts for building infrastructure on AWS Cloud.
- Containerized applications with Docker Platform and Deployed in AWS ECS, AWS EKS **optimizing performance by 60%.**
- Implemented an Application Load Balancer for API redirection using ALB Ingress controller on AWS EKS.
- Implemented CI/CD pipelines with AWS CI/CD Tools (CodeBuild, CodePipeline), **reducing deployment time by 70%.**
- Set up UI in S3 with CloudFront integration, boosting **content delivery speed by 45%** and enhancing user experience.
- Configured monitoring and logging solutions with AWS CloudWatch, improving system **observability by 40%** and reducing issue resolution time.
- Authored comprehensive customer handover documents, including runbooks, operations manuals, and technical specifications, to ensure seamless knowledge transfer and operational continuity.

Associate DevOps Engineer: Minfy Technologies Pvt Ltd | Bengaluru, India   **April 2022 - Present**

- Collaborated with customers to understand their requirements and **recommended feasible solutions**, minimizing application downtime and reducing infrastructure costs.
- Led Containerization with **Docker** platform & managed orchestration with **Kubernetes** using EKS, AKS Clusters.
- Spearheaded designing, architecting and implementing scalable cloud-based web applications using **AWS** and **AZURE**.
- Designed and built advanced CI/CD pipelines using **Jenkins, AWS CI/CD, Azure DevOps, GitHub Actions, and GitLab**, integrating tools like **Git, SonarQube, Docker, Terraform, Kubernetes, ARGO CD, SAST and DAST tools.**
- Modernized customer architecture by leveraging Terraform, Ansible, and Kubernetes, resulting in a **60% reduction in infrastructure costs** and a **50% enhancement in system performance**.
- Developed **production-grade Terraform scripts** utilizing conditions and functions to provision services on AWS and Azure.
- Automated infrastructure provisioning through Terraform and CI/CD Tools, optimizing deployment processes, and **eliminating 70% of manual work** while ensuring high-quality code via continuous integration.
- Implemented DevSecOps practices, integrating security tools (**SAST & DAST**) into CI/CD pipelines and at the application level, **enhancing system security by 60%**.
- Implemented monitoring with tools like Prometheus, Grafana, Datadog, Kiali, Jaegar and Nagios, enhancing observability.
- Successfully completed all documentation phases, delivering **100% of comprehensive implementations** to customers.
- Maintained data integrity and access control while leveraging cloud platforms for secure operations.
- Managed multiple Kubernetes clusters from various regions using the Rancher Kubernetes Management Platform
- Implemented server-side technologies like Apache, Nginx and static website hosting on AWS S3 with CloudFront.
- Led team members to achieve targeted customer results, creating a collaborative and productive work environment.
- Successfully automated repetitive tasks using **Bash and Python** scripts, maximizing efficiency and ensuring consistent automation performance.

SKILLS

Versioning Tool - Git, BitBucket, GitHub, GitLab, Azure Repos, CodeCommit

Languages - Python, Bash (Intermediate)

Cloud Platform - AWS, Azure, GCP

Containerization and Orchestration - Docker, Kubernetes

Web Server - Apache, Nginx, Windows IIS

Infrastructure as a code - Terraform, Cloudformation

Platforms/Operating System - Linux (Ubuntu, RHEL, Amazon), Windows

Configuration Management Tool - Ansible

Build Tools - Maven, Gradle, NPM

SAST & DAST Tools - SonarQube, OWASP ZAP

CI/CD Tools - Jenkins, GitHub actions, Gitlab, Argo CD, AWS CI/CD tools, Azure Devops

Monitoring & Logging - Grafana, Prometheus, ELK, FluentBit, DataDog, Kiali, Jaegar, Nagios

PROJECTS

Dhruva Space Limited

- Documented customer requirements and proposed solutions, contributing to improvement of system **efficiency by 40%** compared to existing system.
- Led the containerization of application microservices and UI (Node.js) using docker, resulting in a **40% enhancement of application performance and scalability**
- Constructed Terraform scripts for automating infrastructure provisioning, ensuring **40% reduction** in infra setup speed.
- Implemented robust and secure CI/CD Pipelines using GitHub, Jenkins with SonarQube, Trivy image scanning and ArgoCD for deployment of microservices in AWS EKS Cluster.
- Executed cost optimization based on resource consumption, resulting in a **30% reduction** in AWS expenses.
- Enhanced security using AWS services and other tools to conduct thorough testing, leading to a **40% decrease** in application vulnerabilities.
- Monitored application performance using ELK Stack.

American Megatrends International

- Proposed modernization for existing monolithic GitLab architecture on on-premises servers to deploy on EKS Cluster in microservice fashion, using Terraform for infrastructure provisioning and Kubernetes cluster (EKS) for application deployment resulting in a **40% increase in application efficiency** compared to on-prem deployment.
- Implemented multiple CI/CD pipelines for automating Infrastructure provisioning using Terraform and deploying GitLab & other applications on EKS using Terraform and Helm, using AWS CI/CD tools.
- Implemented GitLab runner agents autoscaling solutions using docker-autoscaler, docker-machine achieving a **40% improvement in build speeds** for Linux and Windows environments.
- Designed efficient monitoring stack with Prometheus for metrics monitoring and alerts, fluent bit & CloudWatch for log management, and Grafana for visualization, **improving system monitoring capability by 45%**.
- Successfully transitioned to production phase, completing rigorous testing phases and ensuring system stability.
- Applied AWS cost-saving plans to optimize cloud bill, resulting in a **35% reduction in overall expenses**.
- Documented detailed Runbook and operations manual for customer reference, ensuring smooth operational procedures and knowledge transfer.

National Health Authority

- Implemented a DBaaS using AWS RDS with a Serverless Aurora Cluster with CloudWatch monitoring and alarms **reducing DB downtime by 90%**
- Deployed WordPress application, integrating with DBaaS, resulting in a **60% increase in system reliability**.
- Utilized JMeter and tested system's scalability and response handling.
- Documented comprehensive runbook and monitoring operations manual, facilitating seamless operational procedures and knowledge transfer for the team.

Centre for Development of Telematics (C-DOT)

- Developed architectural diagrams for sanchar-sathi and Tafcop applications Infrastructure components to align with client specifications.
- Led the end-to-end deployment of a Java & Django based applications on Azure Cloud.
- Deployed the UI on Azure Web Apps for high performant user experience.
- Managed backend deployment on Azure VM Scale Sets with a load balancer for high availability.
- Secured and hosted the database using Azure SQL Database.
- Developed Terraform scripts to provision Azure services using the Azure Resource Manager provider and automated infrastructure provisioning using CI/CD with Azure DevOps build and release pipelines.
- Implemented CI/CD using Azure DevOps release pipelines for both frontend and backend deployments, with best security practices enabling advanced security with dependency scanning.
- Utilized Azure Monitor to maintain continuous observability of the infrastructure components and application performance.

JMBAXI - Propelor

- Documented customer requirements, understanding of key requirements such as quotation, booking, billing, payment, and shipment tracking for development of ERP System.
- Led UI/UX prototype development with Figma tool addressing challenges for frontend and backend enhancements with the customer.
- Containerized dotnet based microservices, UI, APIs, and CMS strapi, and deployed them in AWS ECS Cluster.
- Constructed Terraform scripts for automating infrastructure provisioning, **boosting operational efficiency by 40%.**
- Implemented multiple CI/CD Pipelines using CodeCommit, CodeBuild, CodePipeline, ECR integrating with SonarQube, trivy Image vulnerability scanning and OWASP ZAP streamlining security with deployments into ECS Cluster.
- Contributed to AWS cloud bill optimization efforts, resulting in a **30% reduction in overall costs**.
- Deployed ELK Stack for microservices and UI monitoring and used CloudWatch log group for log monitoring.
- Documented comprehensive Runbook and operations manual for customers, providing clear guidelines for operational procedures.

JMBAXI - Diabos

- Developed architectural diagrams for JmBaxi-Diabos to align with client specifications.
- Provisioned AWS infrastructure using Terraform templates for components including VPC, NACL, EKS with Fargate, ElastiCache Redis, IGW, NAT Gateway, RDS, ALB, CloudFront, Route53, ACM, WAF, API Gateway, and AWS Cognito.
- Streamlined CI/CD processes by automating Docker image builds and deployments to ECR using AWS CodePipeline.
- Integrated AWS monitoring tools to enhance application observability and performance tracking.
- Automated the deployment of microservices into an EKS cluster with ArgoCD, ensuring continuous deployment of image builds.
- Configured RESTful APIs for backend integration via AWS API Gateway.
- Authored comprehensive runbooks and operations manuals, providing clients with detailed operational procedures.

CERTIFICATIONS

1.	**Certified kubernetes Administrator - CKA**	**July 2024**
2.	**Certified kubernetes Application Developer - CKAD**	**Mar 2024**
3.	**Oracle Cloud Generative AI Professional**	**July 2024**
4.	**AWS Certified Solutions Architect – Associate**	**Aug 2022**
5.	**HashiCorp Certified: Terraform Associate (003)**	**Nov 2023**

ACHIEVEMENTS

Deliver Outcome	**Jan 2024**
Awarded for demonstration of exceptional skills in delivering outstanding outcomes	
One Minfy Customer Success Award	**April 2024**
Minfy Recognition Award for Customer-Centric in Minfy's Townhall 2k24	

EDUCATION

Bachelor's of Engineering	**2017 - 2022**
B.L.D.E.A'S Dr.P.G.Halakatti College of Engineering,Vijayapur	