

POSA VENKATA AKHIL

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OBJECTIVE

DevOps professional with 2+ years of experience in architecting and executing fully automated CI/CD pipelines, significantly reducing deployment time and boosting deployment frequency. Proficient in cloud platforms such as AWS and Azure, adept in infrastructure as code practices, and skilled in deploying monitoring and alerting systems.

PROFESSIONAL SUMMARY

- 2+ Years of experience in Cloud & DevOps, specializing in building cloud infrastructure and implementing DevOps practices.
- Experienced in Application Configurations, Building, Packaging, Automating, Managing, and releasing codes across various environments and deploying to cloud services.
- Proficient with Linux Utilities: SSH, User Management, Process Management, Memory Management, Text processing tools, Log Management, Package Management, Disk Management, and Swap Partition/Files Management.
- Skilled in infrastructure development and operations using AWS services like VPC, EC2, EKS, ECR, IAM, S3, CloudFormation, and CloudWatch for effective cloud solutions.
- Deploying, managing, and operating scalable and highly available systems on cloud using Terraform Infrastructure As Code (IaC).
- Expertise across all phases of software development life cycle (SDLC) and Agile development methodology.
- Maintained version control systems ensuring code integrity using SCM tools like Git, GitHub, and SonarQube on Linux platforms.
- Proficient in creating CI/CD pipelines using Jenkins, enhancing build and deployment processes.
- Experienced in deploying production workloads on Kubernetes using cloud platforms like AWS EKS with Jenkins Integrations.
- Knowledge on project management and issue tracking tools like GitHub, facilitating clear communication and efficient resolution of development tasks.
- Demonstrated exceptional analytical and problem-solving skills, capable of independent work as well as collaborative team efforts.
- Excelled in communication, organisational abilities, and client interaction, reliably handling business inquiries and support.

TECHNICAL SKILLS

Operating Systems: Linux, Windows, Mac

Cloud Platforms: AWS, Azure

DevOps Tools: Jenkins, Docker, Kubernetes, Ansible, Terraform

Version Control: Git, GitHub

Monitoring Tools: Prometheus, Grafana

Networking: TCP/IP, DNS, HTTP/HTTPS, CDN

Scripting: Bash Scripting

Web/App Servers: Apache, Tomcat, Nginx

Virtualization/Container: Docker, Kubernetes, Vagrant, VMware, VirtualBox

Project Management: Communication, Time Management, Adaptability, Problem Solving, Teamwork, Creativity

Automation: CI/CD

PROFESSIONAL EXPERIENCE

Wipro Technologies

DevOps Engineer

Customer: Freedom Mortgage, Kona LMS, IND

Bangalore, Karnataka, India

Sept 2023 - July 2024

Roles and Responsibilities:

- Built Docker Images and shipped images to Docker registry and AWS ECR, deployed to production clusters on AWS EKS.
- Performed rolling updates on EKS cluster when new source code is released.
- Managed source code version tagging and prepared release notes for builds and releases.
- Prepared Jenkins pipeline (Pipeline as Code) for automated Builds & Deployments to Kubernetes Cluster (EKS).
- Implemented custom Jenkins pipelines for project-specific builds and deployed to different namespaces for Dev, QA, and Prod environments.
- Configured and setup database parameters while deploying into specific environments.
- Troubleshooted build issues and coordinated with development teams to fix build problems.
- Deployed 3-tier architecture infrastructure on AWS Cloud using Terraform.
- Developed CI/CD workflows with integrations on cloud platforms using Git, GitHub, Sonar, Nexus, Terraform, Docker, Kubernetes, and Azure DevOps.
- Deployed and managed AWS services including EC2, RDS, and S3 to host a scalable Learning Management System.
- Implemented and managed a PostgreSQL database ensuring efficient data storage, high performance, and security for the Learning Management System.
- Automated build tool to create deployable artifacts for both frontend and backend of the LMS application.
- Implemented and optimized Jenkins CI/CD pipelines, integrating Git & GitHub for seamless deployment.
- Containerized the LMS application with Docker for consistent deployment and scalability.
- Prepared Kubernetes Manifest files for Deployments and Service for the LMS application.
- Configured Prometheus and Grafana for real-time monitoring and performance insights.
- Documented processes, configurations, and best practices for future reference.
- Managed and deployed Azure resources such as Azure VMs, Azure SQL Database, and Azure Blob Storage to support application infrastructure.
- Implemented monitoring and logging solutions on Azure using Azure Monitor and Azure Log Analytics for enhanced system visibility.

Wipro Technologies

DevOps Engineer

Customer: USAA

Bangalore, Karnataka, India

May 2022 - August 2023

Roles and Responsibilities:

- Deployed AWS EC2 Instances behind Elastic Load Balancers and Auto Scaling to ensure High Availability across Multiple Availability Zones.
- Deployed RDS Instances and provided endpoint details to Database teams, managed database Snapshot Methods.
- Provisioned EBS Volumes & Created File Systems on EBS as per business needs, Scheduled EBS Automatic Snapshots with Lifecycle Manager.
- Configured and Managed IAM Roles for EC2, S3, EKS, etc.
- Designed Highly Available VPC for a 3-Tier Application Architecture, managing Security Groups, NACL's, Gateways (NAT), Route Tables, and Subnets.
- Understood organizational requirements for infrastructure to procure Workstations and Deployed EC2 Instances.
- Wrote Shell Scripts to perform cross-region backup for EC2 AMIs.
- Handled Production Deployments and conducted performance impact analysis with QA Team.
- Managed provisioning of AWS infrastructure using CloudFormation Templates.
- Generated assessments, developed and implemented actionable recommendations based on results and reviews.
- Used CloudFront to deliver content from AWS edge locations to users, reducing load on the front-end server.
- Configured CloudWatch alarm rules for operational and performance metrics for AWS resources.
- Deployed Azure Kubernetes Service (AKS) clusters for running containerized applications and managed scaling and updates.
- Utilized Azure DevOps for automated CI/CD pipelines, ensuring efficient and reliable deployments to Azure environments.

EDUCATION

K.S.R.M College of Engineering
B.Tech in Computer Science and Engineering
CGPA: 7.06

Andhra Pradesh, India
2022

NARAYANA JUNIOR COLLEGE
12th Standard
Percentage: 91.8%

Andhra Pradesh, India
2017

Nagarjuna Model School
10th Standard
CGPA: 8.3

Andhra Pradesh, India
2015

PROJECTS

- **Facial Recognition System** **Academic Project**
 - Developed a facial recognition system using deep learning models
 - Utilized Convolutional Neural Networks (CNNs) and OpenCV for image processing. Integrated with AWS Rekognition for advanced facial recognition capabilities.
 - Led the design and implementation of the system architecture
 - Improved recognition accuracy by 15% through model tuning and data augmentation
 - Fine-tuned CNN models using transfer learning techniques and optimized hyperparameters using Bayesian optimization.
- **XGBoost Tuned Machine Learning Model for Software Bug Prediction** **Academic Project**
 - Developed a machine learning model for predicting software bugs
 - Utilized XGBoost for its high performance in handling structured data. Preprocessed and cleaned dataset using pandas and scikit-learn libraries in Python.
 - Achieved 85% accuracy in predicting software bugs
 - Trained the model on a dataset of historical software development metrics and bug reports. Used feature engineering techniques to extract relevant features.
 - Implemented the model in a production environment
 - Deployed the model on AWS Lambda for real-time bug prediction. Developed a RESTful API using Flask to integrate with existing bug tracking systems.

CERTIFICATIONS

- AWS Certified Practitioner
- Microsoft Certified: Azure Data Fundamentals
- Hacker Rank SQL Certification

ADDITIONAL INFORMATION

- **Nationality:** Indian
- **Languages Known:** English, Telugu
- **Willing to Relocate:** Yes
- **Valid Passport:** Available