Kanakala Soma Mahesh Vardhan

7287082713 | maheshvardhank@gmail.com | Rajahmundry, A.P

Summary

Aspiring DevOps Engineer with hands-on experience in deploying scalable applications using Docker, Kubernetes, and AWS. Seeking an entry-level position to leverage my skills in continuous integration/continuous deployment (CI/CD) and infrastructure automation

Skills

Linux, Windows, AWS, Azure, Jenkins, GitLab, Ansible, Chef, Puppet, Docker, Kubernetes, Git, GitHub, Bash, PowerShell, Prometheus, Grafana, Terraform, Helm, Vagrant

Experience

Innomatics Research Labs
Full Stack Development Intern | Present

· Collaborated with a team to design and develop web applications using React, Flask, and SQL databases, contributing to improved user experience and performance.Grew customer based and increased restaurant social media accounts by 19% through interactive promotions, engaging postings, and contests.

· Assisted in implementing RESTful APIs and integrating them with front-end applications, ensuring seamless data flow and nteraction.

· I participated in code reviews and testing, ensuring high code quality and adherence to best practices.

Projects

Developing and Deploying a Game with Docker on AWS Elastic Beanstalk

Tools: Docker, AWS Elastic Beanstalk, AWS Management Console

• Deployed the Super Mario game on AWS Elastic Beanstalk using Docker, achieving 99.9% uptime.

• Reduced operational costs by 20% through optimized AWS management.

• Implemented CI/CD processes, improving deployment speed by 30%.

Super Mario Game Deployment on AWS EKS

Tools: Docker, AWS EKS, AWS CLI, EKSCTL, Kubectl

• Deployed Super Mario on AWS EKS with Docker containers, enhancing scalability and performance.

• Implemented Kubernetes orchestration to achieve cost savings and reduced downtime by 25%. Ensured high availability and security through Kubernetes-driven updates.

3. DevSecOps Pipeline for Netflix Clone Application

Tools: Kubernetes, Jenkins, GitLab, Security Tools

Architected a DevSecOps pipeline for a Netflix clone application on Kubernetes, streamlining the CI/CD process; implementation reduced manual intervention by 60%, allowing teams to focus on feature development and innovation.

• Enhanced deployment efficiency and application security with continuous monitoring.

• Increased system reliability by 40% and achieved real-time issue resolution.

4. Automated Infrastructure Management with GitLab CI/CD and Terraform

Tools: GitLab CI/CD, Terraform

• Implemented GitLab CI/CD and Terraform for automated infrastructure management.

• Automated testing and cloud migration, resulting in 99.9% uptime and a 20% faster ticket resolution.

• Improved UI, leading to a 15% increase in user satisfaction and a 30% reduction in bugs.

5. **Conducted Peer Code Reviews**

Tools: Git, GitHub

• Conducted peer code reviews within development team sessions, identifying two critical optimization opportunities.

• Improved application load times by 20%, resulting in a significantly enhanced overall user experience across various devices.

6. **Automating Tetris Deployments with ArgoCD, Terraform, and Jenkins**

Tools: ArgoCD, Terraform, Jenkins, Kubernetes, Git, Docker, GitHub
- **ArgoCD:** Enabled GitOps for Kubernetes deployments, automating app state sync.
- **Terraform:** Provisioned cloud infrastructure with IaC, ensuring reproducibility.
- **Jenkins:** Configured CI/CD pipelines for efficient build, test, and deployment

Education

Aditya Engineering College | Surampalem, A.P
Electrical and Electronics Engineering

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Certificates

Introduction to Programming Using Python, Python for Beginners, Introduction to Front End Development, The Complete 2024 Web Development Bootcamp, Learning Amazon Web Services (AWS) for Developers, Learning Git and GitHub (2021), Career Essentials in GitHub Professional Certificate, Git Essential Training, Programming Foundations: Databases, Advanced Golang, Learn Ansible Basics - Beginners Course, Grafana Loki, Prometheus Certified Associate (PCA), GitOps with ArgoCD, Terraform Basics Training Course, Kubernetes for the Absolute Beginners, Docker Training Course for the Absolute Beginner, Jenkins for Beginners, GIT for Beginners, Helm for Beginners, Learning Linux Basics Course & Labs, Fundamentals of DevOps, Shell Scripts for Beginners, Python Basics