RESUME

Kanthivardhan Kappala

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Career Objective

Aspiring DevOps Engineer with a passion for DevOps practices, automation, and continuous integration/delivery (CI/CD). Seeking an entry-level DevOps Engineer position to apply my skills to help organizations streamline their software development and operational workflows.

Core Competencies & Skills

- **Version Control** : Git, GitHub
- **Build & Deployment Tools** : Maven, Jenkins
- **Containerization & Orchestration** : Docker, Kubernetes, Helm
- **Infrastructure Automation** : Ansible, Terraform
- **Cloud Technologies** : AWS (EC2, S3, VPC, IAM, CloudWatch, SNS, EKS Stack)
- **Monitoring & Logging** : Prometheus, Grafana, CloudWatch, SNS
- **Web & Application Servers** : Tomcat, Apache HTTPD
- **Operating Systems** : Linux (RedHat, CentOS, Ubuntu, Amazon Linux), Windows
- **Scripting** : YAML Scripting, HCL Scripting, Groovy Scripting
- **Security** : IAM, Kubernetes Secrets & ConfigMaps, AWS Security Best Practices
- **Code Quality Tools** : SonarQube
- **Artifact Management** : JFrog Artifactory

Projects

Kubernetes Deployment and CI/CD Automation
(https://kanthivardhank.github.io/my-portfolio/KubernetesDeployment.html)
Objective: Automated the deployment of a Maven-based web application using CI/CD tools and Kubernetes, ensuring scalability and efficient monitoring.
Key Contributions:

- Set up Git, Jenkins, and Ansible on AWS EC2 for CI/CD automation.
- Built and pushed Docker images to Docker Hub using Ansible playbooks.
- Deployed application pods and services on a Kubernetes cluster using EKS and YAML manifests.
- Integrated Prometheus and Grafana for real-time monitoring of application and cluster performance.

Technologies Used: Git, Jenkins, Maven, Ansible, Docker, Kubernetes, Prometheus, Grafana, AWS.
Outcome: Streamlined deployment workflow, improved scalability, and ensured system reliability with Kubernetes and monitoring tools.

Docker Deployment CI/CD Pipeline (https://kanthivardhank.github.io/my-portfolio/DockerDeployment.html)
Developed an automated CI/CD pipeline using Jenkins, Docker, and Git for seamless application deployment. Key contributions:

- Configured Jenkins to automate code compilation, WAR file creation, and Docker image generation.
- Deployed Dockerized applications to an EC2 instance and integrated GitHub for version control.
- Automated CI/CD with linked Jenkins jobs for image building, pushing to Docker Hub, and container deployment.
- Delivered consistent, error-free deployments, reducing manual effort and time.

SonarQube and JFrog Integration for CI/CD (https://kanthivardhank.github.io/my-portfolio/SonarQube+JFrog.html)

Developed a CI/CD pipeline using Jenkins, SonarQube, and JFrog to ensure code quality and artifact management. Key contributions:

- Configured Jenkins for code builds, unit testing, SonarQube analysis, and artifact publishing.
- Integrated SonarQube for static code analysis and quality gate enforcement.
- Deployed build artifacts (JAR/WAR) to JFrog Artifactory for version-controlled distribution.
- Automated pipeline execution via Git polling, ensuring seamless code validation and deployment.
- Delivered end-to-end CI/CD with quality assurance and artifact management.

Infrastructure as code (On-going)

- **AWS EC2, VPC, S3 Provisioning**
  Automated the creation of AWS EC2 instances, VPC and S3 with Terraform.
- **Modular Infrastructure**
  Developed reusable Terraform modules for managing VPCs, subnets, and security groups.
- **Infrastructure State Management**
  Managed Terraform state files and demonstrated best practices for remote state storage using backend configurations like S3.

Achievements and Certifications

- **Publications** (https://kanthivardhank.github.io/my-portfolio/PaperPublication.html)
  "A Review on Implementing and Adopting DevOps Methodology" by K. Kanthivardhan, published in *Proceedings of ICRICT-2024, Volume 5 (ISBN: 978-81-968265-0-5), Pages 143-149.*
- **Certificate of Presentation** (https://kanthivardhank.github.io/my-portfolio/PaperPublicationCertificate.html)
  Awarded for presenting the paper *"A Review on Implementing and Adopting DevOps Methodology"* at ICRICT-2024, organized by P.B. Siddhartha College of Arts & Science, Vijayawada.
- **Certifications** (https://kanthivardhank.github.io/my-portfolio/DevOpsCourseCertificate.html)
  DevOps Course Completion Certificate from Saidemy IT Training Institute.

Education

S. No	Course	Institute/University	Year of Passing	Marks (%)/CGPA
1	Master of Computer Applications	P.B. Siddhartha College, Vijayawada	Sep-2024	8.78
2	B.Sc. Computer Science	Andhra Loyola College, Vijayawada	2022	8.40
3	Intermediate MPC	Andhra Loyola College, Vijayawada	2019	8.03
4	Class X	St. Mary's English Medium High School	2017	8.80

Soft Skills

- Adaptability: Willingness to learn and adapt to new tools and technologies.
- Troubleshooting issues
- Communication and collaboration
- Time Management: Ability to prioritize tasks effectively

Personal Details

- **Date of Birth** : 20 - 03 - 2002
- **Nationality** : Indian
- **Languages** : English, Telugu
- **Address** : Vijayawada, AP, 521260
