

# RESUME

## Kanthivardhan Kappala

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### Summary

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.

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### Core Competencies & Skills

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

#### Kubernetes Deployment and CI/CD Automation

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

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

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

- **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.
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### 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

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### 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
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### Personal Details

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