

# Priti Ranga

## DEVOPS ENGINEER

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### Profile Summary

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DevOps engineer with 3 years of experience aiming to streamline software development and deployment pipelines, manage and optimize cloud infrastructure, and enhance CI/CD and DevSecOps processes using like tools like AWS, Docker, Kubernetes, and Jenkins, ensuring efficient, reliable, and secure software delivery and system performance.

### Experience

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#### TestingXperts | DevOps Engineer (Jan 2022 – Current)

- **Developed dynamic pipeline workflows** that improved efficiency in handling new client proposals, reducing manual intervention.
- **Mastered Terraform** for streamlined infrastructure deployments, reducing setup time.
- **Leveraged advanced AWS services** to optimize cloud infrastructure, resulting in significant cost savings.
- **Enhanced DevSecOps pipelines**, improving security posture.
- **Implemented shell scripting** techniques, automating tasks to increase operational efficiency.
- **Developed and maintained reliable DevSecOps Jenkins pipelines** to ensure non-vulnerable deployments, achieving a high success rate.
- **Deployed applications using Docker and Kubernetes** for scalability and reliability, improving uptime.
- **Integrated security tools such as SonarQube, Checkov, Trivy, Dependency Checker, and OWASP ZAP** into CI/CD pipelines, reducing security vulnerabilities significantly.
- **Implemented pre-production approval processes** to enhance deployment security and compliance, reducing post-deployment issues.
- **Prepared comprehensive documentation** for each task and learning activity, including process diagrams, operational procedures, and knowledge-sharing materials. This ensured clear communication of DevOps practices and facilitated continuous learning and improvement within the team.

### Projects

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#### DevSecOps

- Created a DevSecOps **Jenkins pipeline** for Java-based applications.
- **Wrote Jenkinsfile** to define pipeline stages and automate processes.
- **Configured GitLab** integration.
- **Implemented Kubernetes environment** checks and cleanup to ensure reliable deployments.
- **Utilized dynamic configurations** in pipeline builds, increasing flexibility and efficiency.
- **Conducted Software Composition Analysis and integrated SonarQube**, enhancing security.
- **Ran unit tests and Docker file security scans**, improving overall quality and safety.
- **Managed Docker images in Nexus repository**.
- **Automated the creation of staging and production environments on Kubernetes**, streamlining deployment processes.
- **Used OWASP ZAP for Static Application Security Testing (SAST)**, ensuring compliance.
- **Implemented manual deployment approvals for pre-production**, increasing control over releases.
- **Monitored Jenkins server performance and sent notifications to Microsoft Teams**, improving operational visibility and response times.

## ASTM

- **Used JIRA** to document processes and ensure alignment across teams.
- **Created pipeline workflows and visualized complex processes using MS Visio** to improve communication and project understanding across teams.

### Automated CI/CD Pipeline Implementation using Jenkins, Docker, and AWS CodeDeploy

- **Designed and implemented an automated CI/CD pipeline leveraging Jenkins, Docker, and AWS CodeDeploy** for seamless deployment of a static web application.
- **Orchestrated Docker image creation and automated push to DockerHub** for efficient version management.
- **Packaged and stored deployment artifacts, including appspec.yml, in S3** for streamlined deployment.
- **Deployed applications on AWS EC2 via CodeDeploy**, ensuring fully automated, reliable, and repeatable deployments.

### Deployment of a Gradle-Based Java Web Application on AWS EC2 Using CodeDeploy

- **Executed the deployment of a Gradle-based Java web application on AWS EC2 utilizing AWS CodeDeploy**, incorporating custom deployment scripts to enhance automation.
- **Developed and configured appspec.yml along with IAM roles and permissions** to establish a secure and efficient deployment pipeline.

## SRA

- **Monitored Azure resources and services through custom dashboards** to ensure optimal performance and availability.
- **Prepared and delivered daily reports on Azure resource usage and service status to clients** for transparency and informed decision-making.

## Education

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**Guru Jambheshwar University of Science and Technology, Hisar, HR, India**

MCA | 2018 - 2021

PGDCA | 2016 - 2017

**Govt. P.G. College, Jind, HR, India**

B.Sc. Computer Science | 2013 - 2016

## Skills

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- Cloud Platforms: AWS, Azure DevOps
- Infrastructure Automation Tools: Terraform
- Configuration Management Tools: Ansible
- Continuous Integration Systems: Jenkins, GitLab CI/CD
- Containerization Technologies: Docker
- Container Orchestration and Management: Kubernetes, Helm
- Source and Version Control: Git, GitHub, GitLab
- Scripting Languages: BASH, Python
- Monitoring and Logging: Prometheus, Grafana
- Operating Systems: Linux (Ubuntu), Windows
- Security Automation Tools: SonarQube, Trivy, Dependency Check, OWASP ZAP
- Repository Management: Nexus, JFrog Artifactory
- Documentation and Visualization Tools: MS Visio