

# Vivek J S

DevOps Engineer

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## Career Objective

Dynamic DevOps expert with comprehensive experience, encompassing 7 months full-time, 1 year part-time, and 6 months as an intern, in infrastructure management, continuous integration, and zero-downtime maintenance. Proficient in automating CI/CD pipelines using tools like Jenkins, Docker, and Ansible for efficient build, test, and delivery processes. IBM-certified in DevOps and Cloud Computing, adept at leveraging cloud technologies to optimize workflows and drive transformative change.

## Professional Experience

### Piltismart Solutions

*DevOps Engineer (Full-time) | Nov 2023 - Present*

- Monitor all CI/CD Jenkins pipelines to ensure streamlined operations.
- Migrate company website from AWS to Oracle, reducing costs with Re-purchase strategy.
- Migrate Jenkins Jobs and make replica of Jenkins server for high availability purpose with Re-host strategy.
- Migrate Piltiservices from AWS to Oracle for improved efficiency with Re-purchase strategy.
- Experience in AWS services like VPC, EC2, S3, and IAM, Autoscaling, CloudWatch, SNS, LoadBalancer, SQS, RDS, CloudFront.
- Provision infrastructure on Digital Ocean using Terraform for an LLM chatbot and centralized logging with ELK Stack.

*Junior DevOps Engineer (Part-time) | Sep 2022 - Oct 2023*

- Collaborate with development teams to integrate DevOps practices.
- Assist in automating and optimizing cloud infrastructure.
- Support build and deployment processes using Jenkins and Docker.
- Improve system performance and reliability through continuous monitoring and maintenance.

*DevOps Intern (Internship) | Mar 2022 – Aug 2022*

- Add appropriate dependencies for Spring Boot projects and build using Maven to create JAR files.
- Monitor all centralized servers using Prometheus and Grafana for server health checks.

## Skill Sets

Operating Systems	Linux, Windows
Version Control System	Git, GitHub
Cloud Platform	Amazon Web Services (AWS)
Build Tool	Maven

<b>CI Tools</b>	Jenkins, AWS CodePipeline, CodeDeploy
<b>Infrastructure Provisioning Tools</b>	Terraform, AWS CloudFormation
<b>Container Tools</b>	Docker, ECS, ECR
<b>Scripting Language</b>	Python
<b>Container Orchestration Tool</b>	Kubernetes
<b>Bug/Project Tracking Tools</b>	Atlassian Jira, Slack
<b>Centralized Logging and Monitoring Tools</b>	ELK Stack, Prometheus, Grafana, AWS CloudWatch, AWS CloudTrail
<b>Code Quality Tools</b>	SonarQube, Trivy Scan
<b>Databases</b>	MySQL, AWS RDS
<b>Web &amp; App Servers</b>	Apache2, Tomcat
<b>Configuration and Management</b>	Ansible
<b>Artifact Management Tools</b>	Nexus, AWS CodeArtifact
<b>Penetration Testing</b>	OWASP ZAP

## Academic Qualification

- **MCA** in 2024 with 81% from K.L.N College of Engineering.
- **BSc Chemistry** in 2022 with 89% from Thiagarajar College of Arts and Science.

## Project Summary

### Project 1:

Title	Empowering DevOps with AI-Infused Log Management and Observability Solution
<b>Organization</b>	Piltismart Solutions
<b>Role</b>	DevOps Engineer
<b>Duration</b>	October 2023 to June 2024
<b>Technologies Used</b>	Terraform, Ansible, Elasticsearch, Logstash, Kibana, Jenkins, Python

### Description:

- In this project, I enhanced the logging and observability infrastructure by integrating AI for proactive log management and issue detection. I developed a centralized logging system that aggregated logs from over 10 servers, processed them through advanced pipelines, and provided actionable insights using AI tools.
- I created and configured Logstash pipelines to filter, transform, and index log data efficiently. I used Kibana to develop detailed visualizations and dashboards for real-time log analysis and facilitated comprehensive log monitoring and troubleshooting.
- I integrated LogAI to categorize logs into anomaly detection, log summarization, and log clustering, automating AI-driven log analysis and reporting. This proactive log management system generated reports for various teams and improved system reliability by providing early warnings and actionable insights.

### Outcome/Impact:

- Successfully established a robust centralized logging system, improving log management efficiency.
- Enhanced system reliability and performance through proactive issue detection and resolution.
- Streamlined the log analysis process, providing clear and actionable insights to various teams.
- Improved operational efficiency and reduced downtime by leveraging AI-driven log management solutions.

### Project 2:

Title	Automated Deployment and Monitoring of "Smarty App" on AWS
Organization	Piltismart Solutions
Role	DevOps Engineer
Duration	February 2023 to September 2023
Technologies Used	AWS, Cloudflare, SonarQube, Trivy, Docker, Jenkins, Ansible, Terraform, Prometheus, Grafana, Jira

### Description:

- Managed automated deployment and monitoring of "Smarty App," a Java-based application.
- Set up Jenkins CI/CD pipeline integrating SonarQube for code quality checks and Trivy for vulnerability scanning.
- Containerized applications using Docker and stored them in a private registry.
- Provisioned AWS infrastructure using Terraform and managed configurations with Ansible.
- Implemented Prometheus and Grafana for real-time monitoring and alerting, ensuring zero downtime.
- Utilized Jira Kanban boards for efficient task tracking and ticket management.
- Ensured seamless deployments and proactive issue resolution, improving system reliability and performance.

### Outcome/Impact:

- Automated build, test, and deployment processes, reducing manual intervention.
- Achieved zero downtime with effective monitoring and alerting.
- Enhanced system performance and reliability.
- Streamlined task management and collaboration through Jira.

### Certifications

- DevOps Certification - IBM Coursera
- Cloud Computing Certification - IBM Coursera