

NITHISH RAJ

Senior Software Engineer – DevOps | AWS | CI/CD | Infrastructure Automation

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[Portfolio: devops-nithish.pages.dev](#) | [GitHub: Nithishraj19](#) | [LinkedIn: Nithish Raj](#)

PROFESSIONAL SUMMARY

DevOps engineer with experience across AWS infrastructure, Linux, Docker, Kubernetes, Jenkins CI/CD, Terraform, automation, and monitoring. Current role at Kasplo involves work across cloud/container infrastructure, deployment workflows, messaging and data systems, SMTP/email infrastructure, and observability. Maintains a practical DevOps portfolio spanning CI/CD, AWS architecture, Kafka, monitoring, deployment strategies, high availability/disaster recovery, DevSecOps, and cost optimization.

TECHNICAL SKILLS

Cloud & IaC: AWS (EC2, VPC, IAM, ECR, EKS, ALB/NLB, S3, RDS, Route 53, CloudWatch, WAF, CloudFront), Terraform

Containers & CI/CD: Docker, Kubernetes, Amazon EKS, Jenkins, Git, GitHub, Maven, Ansible

Operating Systems & Automation: Linux, Unix, Windows, Bash, Python, system administration, troubleshooting

Networking & Application Infrastructure: DNS, TCP/IP, HTTP/HTTPS, TLS/SSL, Nginx, load balancing, SMTP

Messaging & Datastores: Kafka/AWS MSK, Redis, PostgreSQL, ClickHouse, Oracle, SQL

Monitoring & Security: Prometheus, Grafana, Alertmanager, Node Exporter, cAdvisor, Datadog, Splunk, AppDynamics, SonarQube, GitLeaks, Trivy

PROFESSIONAL EXPERIENCE

Senior Software Engineer – DevOps | Kasplo | March 2024 – Present

- Work across DevOps and infrastructure activities involving AWS, Linux, Docker, Kubernetes/EKS, CI/CD, monitoring, and automation.
- Support containerized application delivery workflows using Docker and Jenkins, including build, deployment, health-check, and rollback patterns where applicable.
- Work with AWS services and infrastructure components including EC2, VPC, IAM, ECR, EKS, load balancers, S3, RDS, Route 53, and CloudWatch.
- Contribute to observability and reliability work involving Prometheus, Grafana, Alertmanager, Datadog, and related monitoring/logging tools.
- Work with messaging and data infrastructure including Kafka/MSK, Redis, PostgreSQL, and ClickHouse.
- Contribute to SMTP/email infrastructure involving SMTP, GreenArrow, network load balancing, Kafka-based processing, and ingress scaling.
- Use Python and Bash automation to support operational workflows and reduce repetitive manual tasks.

DevOps Engineer | Itrust Soft Solutions | January 2020 – March 2024

Project: Geo blue (as shown in previous resume)

- Administered and monitored Splunk Enterprise on Linux and Windows servers, supporting infrastructure monitoring, capacity planning, and optimization.
- Worked with Apache Tomcat, JBoss, WebSphere, and AppDynamics integrations for application-server monitoring.
- Used SonarQube for static code analysis and supported code-quality and security reviews.
- Supported Jenkins CI/CD jobs and Maven build/dependency workflows for Java applications; used Git for source control.
- Worked with Docker and Kubernetes for containerized test environments and application deployment workflows.
- Created and maintained Terraform configurations for AWS resources including EC2, load balancers, and S3; worked with Terraform modules and provisioners.
- Used Ansible playbooks for server configuration, environment setup, and deployment automation.
- Worked with AWS services including EC2, S3, RDS, Lambda, VPC, subnets, route tables, security groups, IAM, and CloudWatch alarms.

SELECTED DEVOPS PORTFOLIO

DevOps Production Platform: Jenkins, Docker, Kubernetes/Kind, Prometheus, Grafana — local-first portfolio implementation.

AWS DevOps Production Platform: Node.js health/metrics app, tests, Docker, Jenkins, and Terraform-based AWS/EKS reference architecture.

SMTP Email Infrastructure Platform: SMTP ingress, NLB, Kafka processing, GreenArrow, and observability reference architecture.

Kafka Distributed Processing Platform: Go producers/consumers, topics, partitions, consumer groups, and datastore integration concepts.

Production Observability Platform: Prometheus, Grafana, Alertmanager, exporters, Docker Compose, and Kubernetes manifests.

Blue-Green Deployment Platform: Docker Compose, Nginx traffic switching, health validation, and rollback workflow.

AWS HA/DR Platform: Multi-AZ, ALB, Auto Scaling, RDS, backup and disaster-recovery reference architecture.

DevSecOps CI/CD Platform: Test, secret/dependency/container scanning, deployment, and rollback workflow.

AWS Cost Optimization Migration Platform: Cost-analysis tooling, Docker optimization, architecture decisions, and AWS migration reference materials.

EDUCATION

Mechanical Engineering — St. Peter's Institute of Higher Education and Research | 2015–2019