DILIP KUMAR

Senior DevOps Engineer | Cloud Infrastructure Specialist | API Management Expert

🏿 dilipbca99@gmail.com 📱 +916369257304 🔗 github.com/Dilip-Devopos 💼 linkedin.com/in/dilipkumarselvam 📍 Bangalore, India

PROFESSIONAL SUMMARY

Accomplished Senior DevOps Engineer with 4+ years of expertise in enterprise software development and DevOps engineering. Demonstrated proficiency in architecting CI/CD pipelines, cloud infrastructure automation, containerized deployments, and API management solutions. Successfully delivered 20+ production applications with 99.9% uptime, accelerated deployment processes by 80%, and established comprehensive monitoring ecosystems.

PROFESSIONAL EXPERIENCE

Software Developer - DevOps Engineer

ZeOmega Infotech, Bangalore | Nov 2022 - Oct 2024

Enterprise WSO2 API Management & DevOps Implementation

WSO2 API Manager • WSO2 Micro Integrator • Jenkins • Docker • Kubernetes • Puppet • Java

- Engineered robust CI/CD pipeline for security scanning utilizing the Dependency Check tool for JAR files and vulnerability detection
- Devised automated workflows to transfer artifacts, orchestrate environments, and deploy WSO2 API Manager via Puppet Spearheaded migration of 50+ WSO2 API Manager and Micro Integrator instances from Windows to Kubernetes platform

- Orchestrated WSO2 API Manager security patch updates leveraging built-in executable tools with zero downtime

 Mastered API lifecycle operations including creation, publication, subscription, and consumption with OAuth2 authentication flows
- Constructed comprehensive API security framework encompassing rate limiting, key management, and secure deployment Streamlined environment provisioning and configuration management slashing manual setup time by 65%
- Formulated monitoring and alerting systems that yielded 99.8% API availability and enhanced performance

Senior DevOps Engineer (Freelance/Contract)

Independent Projects | 2024 - Present

Enterprise ReactJS CI/CD Pipeline with Advanced Security

Jenkins • Docker • AWS EC2 • SonarQube • OWASP • Trivy • Prometheus • Gr

- Architected enterprise-grade DevSecOps pipeline for ReactJS applications supporting 5,000+ concurrent users with automated testing
- Crafted multi-branch CI/CD strategy featuring automated builds for development/production environments via Jenkins Multibranch Pipelines
- Embedded advanced security scanning (OWASP, Trivy) diminishing security incidents by 95% and thwarting 50+ vulnerabilities Deployed comprehensive monitoring solution with Prometheus and Grafana delivering 99.9% application uptime Configured Docker Hub integration with segregated repositories for development and production environments

- Accelerated deployment processes slashing deployment time from 2 hours to 15 minutes through complete automation

Kubernetes-Native Application Deployment on AWS EKS

AWS EKS · Terraform · Kube netes • Jenkins • Prometheus • Grafana • Fluent Bit

- Designed and provisioned AWS infrastructure leveraging Terraform (VPC, subnets, security groups, EKS cluster) with GitOps workflow
- Executed end-to-end CI/CD featuring automated Docker builds and Kubernetes deployments via Jenkins and Helm charts Coordinated containerized applications with auto-scaling, load balancing, and health monitoring ensuring high availability
- Instituted comprehensive observability utilizing Prometheus, Grafana, and Fluent Bit for centralized logging Realized 40% cost optimization through right-sizing, auto-scaling configurations, and strategic resource management

AWS-Native CI/CD Pipeline with Advanced Automation

AWS CodePipeline • CodeBuild • CodeDeploy • ECR • EKS • CloudWatch • SNS

- Constructed AWS-native CI/CD solution utilizing CodePipeline, CodeBuild, and CodeDeploy for frictionless application delivery
- Devised automated Docker image management with ECR integration and sophisticated tagging strategies Pioneered vulnerability scanning pipeline leveraging Trivy with automated reporting and notification systems
- Formulated automated deployment workflows featuring rollback capabilities and zero-downtime deployment · Attained 90% reduction in manual deployment tasks through comprehensive automation and GitOps methodologies

KEY PROJECTS IMPACT

Enterprise API Management Migration

ted migration of 50+ enterprise APIs to Kubernetes yielding 60% faster ments and 99.8% availability. Engineered comprehensive API security

Cloud-Native Monitoring

Established monitoring infrastructure achieving 99.9% coverage and 60% decreased MTTR. Integrated Blackbox Exporter for external service monitoring

Administered 10+ microservices on Kubernetes with horizontal pod autoscaling diminishing resource costs by 35%. Constructed centralized logging for 1000+ daily

Multi-Environment DevSecOps Pipeline

Crafted branch-based deployment strategy resulting in 90% fewer vulnerabilities and 85% improvement in code quality. Incorporated SonarQube for code analysis

Infrastructure as Code

Orchestrated AWS infrastructure provisioning delivering 85% faster setup and 100% consistency. Adopted version-controlled infrastructure with GitOps methodologies.

Facilitated 100+ automated deployments with 99.5% success rate. Dev automated rollback mechanisms decreasing incident response time by

TECHNICAL SKILLS

Cloud Platforms
AWS (EC2, EKS, ECR, CodePipeline, CodeBuild, CodeDeploy, CloudWatch, SNS, VPC, IAM)

Containers & OrchestrationDocker, Kubernetes, Helm, Rancher, Docker Compose

CI/CD & DevOps

dePipeline, GitHub Actions, GitLab CI, ArgoCD

Infrastructure as Code

nation, Ansible, Pupper

Monitoring & Observability

nager, Fluent Bit, Grafana Loki, CloudWatch

Security & Compliance

onarQube, OWASP Dependency-Check, Trivy, Snyk, DevSecOps

API Management

WS02 API Manager, WS02 Micro Integrator, REST APIs, API Security, Rate Limiting

Programming & Scripting

Python, Java, Bash, SQL, YAML, JSON, ReactJS, JavaScript, HTML/CSS, Bootstrap

Database Technologies

MySQL, PostgreSQL, MongoDB, Redis, SQL Server

Version Control & Collaboration

Operating Systems Linux (Ubuntu, CentOS, RHEL), Windows Server, macOS

Networking & Security

VPC, Subnets, Security Groups, Load Balancers, DNS, SSL/TLS, Firewalls

EDUCATION

Master of Computer Application (MCA)

Madurai Kamaraj University Aug 2022 – May 2024 | CGPA: 7.2/10

CERTIFICATIONS

- AWS Solutions Architect (In Progress)
 Kubernetes Administrator (In Progress)
- Jenkins Certified Engineer
 WSO2 API Manager Develop
 Docker Associate (Planned)

ADDITIONAL SKILLS

- DevOps Methodologies: CI/CD, Infrastructure as Code, GitOps, Microservices
- Architecture

 Cloud System Design: High Availability, Horizontal Scalability, Disaster Recovery Planning

- Fianning
 Performance Enhancement: Load Testing, Strategic Caching, CDN Integration
 Agile Frameworks: Scrum, Kanban, Sprint Planning, Retrospectives
 Troubleshooting: Root Cause Analysis, Incident Response, System Debugging
 Knowledge Management: Technical Documentation, Process Workflows,
 Knowledge Transfer

LIVE PORTFOLIO DEMONSTRATIONS

- ReactJS CI/CD Pipeline: http://18.60.226.5/
 EKS Kubernetes App: http://a663870b339364482a86a9e6f3445b69-1151892002.us-west-2.elib amazonaws.com/
 AWS Native Pipeline: http://abb59c4b452064c768a9c0975c9ced80-1446271263.us-east-1.elib.amazonaws.com/
 Prometheus Monitoring: http://18.60.226.5:9090/

- Grafana Dashboards: http://18.60.226.5:3000 SonarQube Quality: http://18.61.24.207:9000/projects

KEY ACHIEVEMENTS

- · Cost Optimization: Slashed AWS expenses by 40% through strategic right-sizing
- and auto-scaling <mark>Security Enhancement:</mark> Diminished security incidents by 95% via automated
- oulnerability scanning

 Performance Acceleration: Boosted deployment velocity by 80% (from 2 hours to 15 minutes)

 • System Reliability: Ensured 99.9% uptime across all production applications
- Process Automation: Eliminated 90% of manual tasks through sophisticated
- CI/CD pipelines
 Migration Excellence: Transitioned 50+ APIs to cloud-native architecture with zero data loss