KASUN MADHUSHAN
DEVOPS ENGINEER

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SKILLS

- Knowledge and hand-on experience with operating systems (maintenance, troubleshooting)
- Hands-on practice with Jenkins pipelines for automated testing and deployments.
- Strong ops skills and support mindset
- Deep understanding of modern monitoring concepts
- Experience with Databases

EDUCATION

**BSC IN INFORMATION AND COMMUNICATION TECHNOLOGY
IN NETWORK TECHNOLOGY**
University of Jayewardenepura
2021 - 2025

FULL STACK DEVELOPER CERTIFICATION
University of Moratuwa
2021-2022

LANGUAGES

Sinhala   native language

English   speaking, writing

PROFILE

Enthusiastic and detail-oriented aspiring DevOps Engineer with strong foundational knowledge in cloud technologies, CI/CD pipelines, and automation tools. Proficient in troubleshooting real-time issues and optimizing deployments using modern DevOps practices. Eager to contribute to building scalable, reliable, and secure infrastructures while enhancing professional expertise.

PROJECTS

01. Deployment of a Highly Available Web Application on AWS

- Designed and deployed a scalable web application using EC2 instances behind an AWS Elastic Load Balancer.
- Automated the provisioning of infrastructure using Terraform, ensuring consistency and repeatability.
- Implemented auto-scaling policies to handle traffic surges, reducing downtime during peak hours.

02. CI/CD Pipeline for a Node.js Application

- Built a CI/CD pipeline using Jenkins to automate code build, testing, and deployment processes.
- Integrated Docker to containerize the application, simplifying deployment to Kubernetes clusters.
- Deployed the application to a Kubernetes cluster (EKS) with Helm charts for efficient resource management.

03. Kubernetes Monitoring System

- Set up Prometheus and Grafana to monitor Kubernetes clusters, tracking resource utilization and application health.
- Configured custom alerts in Alertmanager for CPU/memory thresholds, reducing response time to issues.

04. Wamhands - A disaster management system

- Users can report incidents with details and photos.
- Admin verification of reported incidents.
- Email notifications to users in the affected area after admin confirmation.
- Responsive and user-friendly interface built with React.js.