

Mewantha Bandara

Senior DevOps / Kubernetes Platform Engineer

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Professional Summary

CKA-certified DevOps and Platform Engineer with 8+ years of experience designing, building, and managing scalable cloud platforms on AWS and Kubernetes. Experienced in leading complex infrastructure migrations, implementing cloud-native architectures, and driving operational efficiency across large-scale, high-traffic systems. Skilled in infrastructure-as-code, CI/CD automation, and observability-driven operations. Adept at optimizing cloud performance, reliability, and cost through automation and architectural best practices. Strong background in Terraform, Helm, Linux systems, and the ELK stack, with a proven ability to deliver resilient, maintainable, and secure environments that support rapid software delivery. Adept at aligning DevOps strategy with business goals to improve reliability, delivery speed, and cost efficiency.

Technical Skills

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|-----------------------------------|---|
| Cloud Platforms: | Amazon Web Services (AWS) — EC2, EKS, S3, RDS, Lambda, VPC, IAM (Identity Center), WAF, GuardDuty, KMS, SQS, SNS, CloudWatch. |
| Container Orchestration: | Kubernetes (CKA), Kubernetes Operators, AWS EKS, Docker, KEDA. |
| Infrastructure as Code: | Terraform, Helm, ArgoCD (GitOps), Ansible, Karpenter. |
| CI/CD Pipelines: | Jenkins, GitHub Actions, GitLab CI, AWS CodeDeploy, Git. |
| Monitoring & Obs.: | Prometheus, New Relic, OpenSearch (ELK), Grafana, CloudWatch. |
| Service Mesh: | Linkerd, Istio. |
| Security & Identity: | DevSecOps, VPN, Keycloak. |
| Programming: | Python, Bash, Groovy, Java, C#. |
| Databases & Messaging: | MySQL, Mongo, RabbitMQ, AWS ElastiCache (Redis), SQS. |
| Core Concepts: | Cost Optimization, High Availability, Platform Reliability. |

Professional Experience

DevOps Lead / Associate DevOps Lead
Jun 2023 – Present

Aeturnum Inc (Client: Incentivio Inc)
Hybrid

- Led the **zero-downtime migration** of 60+ production microservices from EC2 to **AWS EKS** for millions of daily users.
- Contributed to a company-wide AWS optimization initiative that **achieved a 40% cost reduction** ($\$100K \rightarrow \$50K$ monthly).
- Designed and implemented scalable, automated infrastructure using **Terraform, Helm, and ArgoCD** (GitOps).
- Built a multi-tenant QA Kubernetes cluster that **reduced QA infrastructure cost by 60%**.
- Implemented dynamic, request-based autoscaling using **KEDA, Prometheus, Linkerd, and Karpenter**.
- Architected centralized observability using **OpenSearch (ELK)** and **New Relic** for metrics, alerting, and anomaly detection.

- Hardened platform security to pass **SOC 2** and **ISO** compliance audits, resolved penetration test findings, and developed **Terraform-based disaster recovery (DR)** plans.
- Managed CI/CD pipelines (**Jenkins**), extensive **Linux system administration**, and **mentored junior engineers** working on various projects.

Software Engineer / Senior Software Engineer

2019 – 2023

IFS R&D

Colombo, Sri Lanka

- Developed and maintained automated test/release pipelines, **reducing production failures by 93%**.
- Maintained cloud (Azure) and on-prem environments using **Kubernetes, Docker, and Terraform**.
- Enhanced DevOps CI/CD processes using Jenkins, GitLab CI, and Bitbucket pipelines.

Freelance Developer

2018 – 2020

Upwork

Remote

- Achieved Top Rated status on Upwork with a 100% client satisfaction rate.

Junior Software Engineer

2017 – 2019

Colombo Centre for Cognitive Computing

Colombo, Sri Lanka

- Developed and supported enterprise applications using Angular, .NET MVC, and MsSql.

Education

MSc Big Data Analytics (*Distinction*)

2019 – 2021

The Robert Gordon University, UK

Affiliated: IIT Sri Lanka

Thesis: Algorithm for validating multi-dataset consistency via pattern matching.

BEng (Hons) Software Engineering (*First Class Honours*) Westminster, UK

2015 – 2019

University of

Affiliated: IIT Sri Lanka

Final Project: Image time-series analysis for Suprachiasmatic Nuclei validation.

Certifications

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- **Certified Kubernetes Administrator (CKA)** - CNCF (2025).
 - **Linux Foundation Certs:** LFS151 (Cloud Infrastructure), LFS158 (Kubernetes), LFS147 (AI/ML with Kubeflow).

Contributions & Achievements

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- **Contributor, Collabnix | KubeLabs:** Contributed to advanced topics on EKS, Helm, ArgoCD, and KEDA.
 - **StackOverflow:** Top 2% contributor (2022–2023).