

Rumal Gunawardana

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Professional Summary

Associate DevOps Engineer focused on reliability and production operations for telecom filtering systems and self-hosted platforms. Experienced in incident recovery, distributed systems, monitoring, and deployment automation. Currently working on migrating Erlang-based carrier systems into Kubernetes environments.

Engineering Focus

Production reliability, failure handling, incident recovery, system deployment automation, and operating distributed backend systems handling real traffic.

Technical Skills

Programming: Java (Spring Boot), Python, PHP, JavaScript

Infrastructure: Linux, Docker, Podman, Nginx, Cloudflare DNS, VPS Hosting, Kubernetes

CI/CD: GitHub Actions, Automated Deployments

Monitoring: Prometheus, Grafana, Nagios, Blackbox Exporter

Databases: PostgreSQL, MySQL, MongoDB, ClickHouse (R&D)

Frontend: React, React Native

Concepts: Reliability Engineering, Incident Response, Distributed Systems, Failure Recovery

Experience

Associate DevOps Engineer – Omobio (Pvt) Ltd

Jan 2026 – Present

- Working on migration of distributed Erlang SMS Firewall (4-node architecture) into Kubernetes pods
- L2 production support on live telecom filtering infrastructure
- Diagnosed and recovered major outages including M3UA down and firewall node failures
- Firewall product installation and environment configuration on production servers
- Coordinated with developers during incident resolution and post-issue validation
- Supported high-availability telecom filtering infrastructure handling real subscriber traffic

Intern DevOps Engineer – Omobio (Pvt) Ltd

Jul 2025 – Dec 2025

- Installed SMS Firewall testbeds and assisted production deployments
- Cleared Nagios alerts and handled operational monitoring events
- Provided L2 troubleshooting for customer-reported issues
- Conducted R&D to evaluate ClickHouse database compatibility with SMS Firewall product
- Assisted validation of telecom protocol integrations during deployment testing

Software Engineer Intern – Fourdiv (Pvt) Ltd

Nov 2024 – May 2025

- Managed VPS infrastructure including patching, backups and monitoring
- Containerized services using Docker and automated deployments
- Built dashboards using Next.js and Spring Boot backend APIs
- Integrated payment gateways and full-stack e-commerce features

Freelance VPS Administrator

2020 – Present

- Hosted and maintained production Telegram bots and APIs
- Configured domains, reverse proxies and SSL using Nginx and Cloudflare
- Implemented CI/CD auto deployment pipelines

Projects

Self-Hosted Production Platform

- Designed and operated publicly accessible backend services and APIs

- Hosted portfolio and APIs behind Nginx reverse proxy with Docker
- Implemented monitoring, uptime tracking and live metrics
- Automated deployments via GitHub Actions CI/CD pipelines

Trash-Smart IoT Waste Management System

- React Native mobile app with Google Maps routing
- Spring Boot backend with real-time bin fill tracking (Arduino + GPS + Ultrasonic)
- PostgreSQL data storage

Sri-Tel Customer Portal Microservice Prototype

- Spring Boot microservices with Keycloak authentication and Kafka events
- Dockerized deployment on Oracle VPS with automated updates

Dine-Ease Restaurant Management System

- PHP/MySQL backend with order and inventory management
- Web frontend using HTML, CSS and JavaScript

Education

BSc Information Systems – University of Colombo School of Computing

2025

Certifications

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate
- Datadog Core Skills Learning Path (Jul 2025)