

CONTACT

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CLOUD

AWS Services - Advance

GCP/AZURE - Advance

CONTAINER/ORCHESTRATION

Kubernetes - Advance

Docker - Advance

Helm - Advance

Stackstorm - Advance

DEVEX/IDPS

Backstage - Advance

WORKFLOW ORCHESTRATION

n8n - Advance

IAC

Terraform - Advance

CloudFormation - Advance

CI/CD

JANANATH BANUKA

DevOps Engineer

EDUCATION

BSc. (Hons) in Software Engineering

Sri Lanka Institute of Information Technology
(Sri Lanka)

April, 2023 - April, 2026

- Grade: **Second Class (Upper Division)** - Recognition of Academic achievements

- Inclusion in **Dean's List (3X)** for maintaining the GPA over 3.75/4 in each semester.

PUBLICATIONS

Smart Human Resource Management System
to Maximize Productivity (Artificial Intelligence)

<https://ieeexplore.ieee.org/document/9359035>

IEEE

Status: Accepted and Published

CERTIFICATIONS

CKA: Certified Kubernetes Administrator

April, 2023 - April, 2026

CKS: Certified Kubernetes Security Specialist

Dec, 2024 - Dec, 2026

WORK EXPERIENCE

Platform Engineer

2023 July – Present

Digital Charging Solutions GmbH, Munich, Germany

- Led the rollout of a **customized Backstage Internal Developer Portal (IDP)**, enabling **golden paths** and **self-service**, improving developer onboarding and productivity

- Built and maintained **custom Backstage plugins** for streamlined access to **CI/CD**, **Azure resources**, and development tools — reducing dev on-boarding and context switching

- Integrated **Azure DevOps** into the IDP for real-time visibility into **pull requests**, **Kubernetes deployments**, and **service health**

- Architected **Business Continuity (BC)** and **Disaster Recovery (DR)** strategies for critical Azure services, including **geo-redundant Function Apps** and **high-availability Redis**

GitOps - Advance

Gitlab CI/CD - Advance

Github Actions - Advance

Azure DevOps - Advance

Jenkins - Advance

SCRIPTING

Bash/Python Scripting - Advance

DATABASES

MySQL - Advance

MongoDB - Advance

MONITORING

OpenTelemetry - Advance

Prometheus/Grafana - Advance

Icinga/Nagios - Intermediate

DataDog - Intermediate

LANGUAGES

English - Fluent

Sinhala - Native

- Set up and maintained **DORA Metrics** to support engineering performance tracking and incident response (**deployment frequency, lead time, MTTR, change failure rate**)

- Designed **scalable Azure DevOps pipelines** using **Helm** to standardize **Kubernetes deployments** across environments

- Led the adoption of **OpenTelemetry**, with auto-instrumentation for **Java applications** and a unified observability stack using **Prometheus, Loki, Grafana**, and the **ELK stack**

- Deployed **self-hosted n8n** on **Kubernetes** with **Helm**, built **custom nodes**, and created **AI-powered workflows** (e.g., **RAG-based cloud compliance tools**)

DevOps Engineer

e-bot7 GmbH, Germany (Munich)

2022 May - 2023 July

- Led and maintained highly available, production-grade **Kubernetes** clusters for 100+ customers

- Built and managed **GitOps** projects for automated app delivery to **cloud Kubernetes** environments

- Developed modular **Terraform** code for infrastructure provisioning and multi-cluster deployments

- Implemented monitoring using **Grafana, Prometheus**, and **Elasticsearch** for microservices on Kubernetes

- Applied a **security-first approach** with container image scanning and **vulnerability detection** in CI/CD

- Led infrastructure **migrations** to adopt modern cloud-native capabilities

- Created internal dashboards using **Python** and **Terraform**, deployed via CI/CD to Kubernetes

- Built reusable **GitHub composite actions** to automate CI/CD workflows for developer teams

System Engineer- DevOps

WSO2, Sri Lanka

2021 July - 2022 July

- Designed and automated **Azure DevOps** pipelines for customer infrastructure provisioning using **Terraform**

- Automated **backups**, routine **audits**, and troubleshooting to ensure system reliability

- Led system performance tuning and ensured **fault tolerance** of deployments

- Integrated new technologies into existing data center environments to improve capabilities

- Automated system updates, patches, and configuration changes for faster, consistent deployments

- Developed **CloudFormation** scripts and automated configuration management with **Puppet** modules

DevOps Engineer

2020 Dec - 2021 July

iTelasoft, Sri Lanka

- Provisioned and maintained **AWS ECS** (EC2 and Fargate) clusters across multiple environments using **Terraform**
- Integrated **DataDog** for comprehensive Application Performance Monitoring (APM)
- Led zero-downtime migration from **Beanstalk** to ECS Fargate
- Developed and maintained automated smoke tests using **Allure**, **CodeceptJS**, Docker, and GitLab CI/CD
- Built status pages deployed on Fargate, integrated with **DataDog** APM
- Implemented GitLab CI/CD pipelines for static code analysis with **SonarQube** in Docker
- Configured AWS Session Manager to improve local development workflows for teams
- Automated issue tracking by integrating **DataDog** with Trello for incident card creation
- Applied security best practices by setting headers on frontend apps via **CloudFront** and **Lambda@Edge**

Cloud Operations/SRE Engineer Intern

2019 Aug - 2020 Aug

Pearson Lanka, Sri Lanka

- Maintained 14+ next-gen educational apps on a **Kubernetes**-based PaaS using **AWS**, **Terraform**, **Ansible**, **StackStorm**, **Jenkins**, **GitLab CI/CD**, **Helm**, and **Consul**
- Automated **TLS certificate deployment** to AWS Secrets Manager using **GoLang**, reducing errors and saving time via **GitLab CI/CD**
- Developed **Bitesize-Troubleshooter**, a **Python**-based Kubernetes vulnerability scanner that cut incident resolution time from hours to minutes
- Collaborated with dev teams to automate CI/CD pipelines using **Jenkins** and **GitLab CI/CD** on a self-hosted **Kubernetes** platform

PROJECTS

1. Kubernetes Setup with GitLab CI/CD

Tools: Terraform, AWS, GCP, GitLab CI/CD, Ansible, Helm, Prometheus, Grafana

2. Kubernetes Operators

Tools: GoLang, Docker, Kubernetes

3. Kubernetes-the-easy-way

Tools: Terraform, GitLab CI/CD, Ansible

Automated Kelsey Hightower's "Kubernetes the Hard Way" using GitLab pipelines and Ansible to provision infrastructure, generate certificates, and set up the cluster from scratch.

4. Efi Enterprise Offering

Tools: Terraform, AWS, GitLab CI/CD, Fargate, CloudFront

Built an enterprise-grade PaaS with frontend apps hosted on **S3 + CloudFront**, and backend services on **Fargate**. Automated deployments via GitLab CI/CD with enhanced app security.

5. Open Project

Tools: AWS Lambda, ECS/Fargate, GitLab CI/CD, Bitbucket Pipelines

Led project setup for a company-wide project management tool on ECS Fargate. Reduced AWS costs by 45% using automation (**spot runners, Lambda scripts**), and improved mobile backend CI/CD.

6. Security Enhancements

Tools: AWS WAF, Trusted Advisor, CloudTrail, Fargate, OWASP ZAP, Azure Security Center, GitLab CI/CD

Led microservices security hardening using **WAF, OWASP ZAP**, and AWS best practices. Set up secure GitLab CI/CD runners with autoscaling and spot instances. Improved Azure cloud security posture significantly.

7. Cost Optimization

Tools: AWS S3, RDS, ECS, CloudTrail, GitLab CI/CD, DataDog

Implemented cost-saving strategies using Trusted Advisor, billing alerts, and **Auto Scaling Group tuning**. Enhanced backup strategies, enabled encryption, and monitored ECS resource usage with **DataDog**.

8. Production Migration

Tools: AWS RDS, EC2

Led production migration for WSO2-owned platform with 25,000+ users. Conducted successful mock migrations and completed the final hand-over post-validation.

VOLUNTEERING

YouTube

Conducted a mentoring session @ Sri Lanka Institute of Information Technology

Volunteer Mentor – Cloud Native Sri Lanka
(Contributed as a volunteer mentor, guiding university students on cloud-native and DevOps concepts)