

GAYAN PATHIRAGE

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Blog](#)

SUMMARY

Recent graduate with 1+ years of hands on experience in IT, working with source code management, automation, containerization, and container orchestration. Skilled in CI/CD, cloud infrastructure management and application support in production platforms in regulated environments. Strong troubleshooting and root cause analysis skills across infrastructure, application, and database layers. Eager to learn and grow within DevOps and cloud engineering environments.

SKILLS SUMMARY

Cloud Platform: Amazon Web Services (AWS), Microsoft Azure

CI/CD & GitOps: Jenkins, GitHub Actions, Argo CD, Git, GitHub

IaC & Automation: Terraform, Bash Scripting

Containers & Orchestration: Docker, Kubernetes

Monitoring & Observability: Prometheus, Grafana, Amazon CloudWatch

Databases: MySQL, Oracle

Operating Systems: Linux, Windows

Vulnerability & Security Management: OWASP Dependency-Check, Trivy

WORK EXPERIENCE

Associate DevOps Engineer (Contract) - VIHI IT Solutions

July 2025 – Feb 2026

- Worked on DIBMS, a cloud based insurance broker workflow management platform for a Sri Lankan insurance brokerage firm.
- Designed and implemented CI/CD pipelines using Jenkins and GitHub Actions for multiple repositories, following Git Flow branching strategy for controlled, branch based deployments.
- Provisioned and managed cloud infrastructure on DigitalOcean for applications.
- Optimized Docker builds to reduce container image size and attack surface.
- Built POC level deployments on Amazon Elastic Kubernetes Service (EKS) to demonstrate Kubernetes adoption feasibility.
- Integrated OWASP Dependency-Check and Trivy vulnerability scanning into CI/CD pipelines.
- Performed troubleshooting for application deployments on Digital Ocean Linux VMs.
- Configured Prometheus, and Grafana for application and infrastructure monitoring.
- Collaborated closely with the client's IT team to align with their infrastructure requirements.

Technologies: Docker | Jenkins | GitHub Actions | DigitalOcean | Azure | Linux | Nginx | Prometheus | Grafana | Git | IAM (Microsoft Entra ID) | Node.js | ReactJS | MySQL

Software (Support) Engineering Intern - DP Infotech (Pvt) Limited

Jan 2025 - July 2025

- Worked on DPMC, an ERP system used by the David Pieris Motor Company for vehicle imports, distribution, after-sales services, HR, and financial operations.
- Assisted in troubleshooting production issues in the live ERP system under supervision of senior engineers.
- Modified Oracle PL/SQL queries and updated .NET Core APIs and JavaScript source code to resolve client issues tracked through JIRA.
- Performed root cause analysis (RCA) tracing issues across frontend, API, and database layers and database error codes.
- Developed custom reports using Oracle SQL queries across multiple database tables based on end user requirements.
- Provided extended production support during month-end business operations to ensure timely completion of essential business workflows.

Technologies: Oracle Database (PL/SQL) | .NET Core | JavaScript | Bitbucket | JIRA

PROJECT

Ecom - Microservices Platform | Kubernetes, ArgoCD & Terraform on AWS

Simulated the deployment and operation of an online store platform on an AWS EKS environment using supporting AWS services. The project demonstrates how infrastructure can be provisioned as code to create the environment required to run the application, how GitOps can be used to continuously deploy service changes to the cluster, and how Kubernetes workloads respond to increased concurrent user load through autoscaling and resource utilization.

- **Infrastructure (Terraform)**- Provisioned the cloud infrastructure as code, including VPC with public/private subnets, EKS cluster, RDS PostgreSQL instances, ECR repositories, security groups, and IAM roles using reusable Terraform modules.
- **CI (GitHub Actions)**- Implemented per-microservice pipelines triggered on code push to authenticate with AWS, build Docker images, push them to ECR with commit-based tags, and update the GitOps repository containing the Kubernetes manifests with the new image tag.
- **CD (Argo CD)**- Configured Argo CD to continuously monitor the GitOps repository, detect differences from the live EKS cluster, and automatically synchronize and roll out changes, keeping the cluster aligned with the configuration declared in Git.
- **Autoscaling**- Configured Kubernetes HPA based on resource utilization and used k6 to generate virtual concurrent user requests, demonstrating pod scaling and changes in resource consumption under load.
- **Security**- Implemented IAM with EKS pod identity/IRSA to provide workloads with controlled AWS access to services such as Secrets Manager and S3 without long lived credentials. Database credentials are stored separately in AWS Secrets Manager.
- **Monitoring (CloudWatch)**- Configured AWS CloudWatch Container Insights to monitor the EKS cluster and workloads, including CPU and memory metrics and Kubernetes/application logs.

Links: [Documentation](#), GitHub Repositories ([Platform](#), [GitOps](#), [BackendServices](#), [Web](#))

Technologies: AWS (EKS, ECR, RDS, S3, IAM, Secrets Manager, VPC, Security Group), Terraform, Argo CD, GitHub Actions, Docker, CloudWatch, k6

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)

June 2021 – September 2025

BSc (Hons) in Information Technology

Final Year Thesis on “AI driven innovation for Sri Lankan rice farming management”.

Central College Karadeniya-Galle

August 2019

G.C.E Advanced Level (Biological Science Stream)

PUBLICATIONS

"SIMOOB: A Lightweight Container-Based Observability Agent for Metrics and Log Monitoring in Modern Cloud Environments." Pathirage, G. (2025). Zenodo. DOI: 10.5281/zenodo.17999343

[Link](#)

"AI-Powered Weed Seed Recognition and Filtering Platform for Smart Rice Farming" in Proc. 16th Int. Conf. Comput., Commun. Netw. Technol. (ICCCNT), Indore, India, Jul. 2025. (Core Author)

[Link](#)

Certifications/Certificates

Microsoft Certified: Azure Administrator Associate (Training) – NextGen Campus
(Completed hands-on Azure training covering AZ-104 curriculum and labs)

AWS Academy Cloud Foundations

(Covered foundational knowledge of AWS cloud services, global infrastructure, security, pricing, and basic cloud architecture concepts)

TECHNICAL WRITING

Technical writer on medium platform with 25K+ views and 15K+ engaged readers, writing about CI/CD, Infrastructure as Code (IaC), containerization, and cloud technologies.