GAYAN PATHIRAGE

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SUMMARY

Recent graduate and entry-level DevOps Engineer with hands-on experience in cloud deployments, CI/CD (Continuous Integration/Continuous Deployment) pipelines, and managing application-level operations in enterprise systems to ensure smooth business continuity. Skilled in Docker, GitHub Actions, AWS, Azure, Linux, and database operations, with practical exposure to monitoring, troubleshooting, and implementing DevOps practices. Seeking opportunities to contribute to team success and to grow expertise in DevOps and cloud infrastructure area.

SKILLS SUMMARY

Cloud & Infrastructure: AWS (Amazon Web Services), Microsoft Azure, Digital Ocean, Terraform
Containers & Orchestration: Docker, Kubernetes
CI/CD & Version Control: GitHub Actions, Git, GitHub
Monitoring & Observability: Prometheus, Grafana, Custom tool development
Programming & Scripting: Python, Shell Scripting
Databases: MySQL, Oracle, MongoDB
Operating Systems: Linux, Windows

WORK EXPERIENCE

Associate DevOps Engineer (Contract) - VIHI IT Solutions   *July 2025 - Present*

Worked on DIBMS which is a cloud-based insurance broker workflow management platform handling Risk Assessment Questionnaires (RAQ), policy management, client relationships, and insurer communications. The system streamlines the complete insurance lifecycle for one of Sri Lanka's leading insurance brokerage firms.

Responsibilities:
- Designed and implemented cloud deployment architecture on DigitalOcean with multi environment setup (UAT, production).
- Developed CI/CD pipelines using GitHub Actions, integrating container security scanning, automated testing, and deployment to UAT and production environments.
- Worked closely with client's internal IT team on infrastructure requirements.
- Created custom internal observability tool providing production system monitoring.

Technologies: Docker | GitHub Actions | DigitalOcean | Node.js | MySQL | ReactJS | GitHub| Linux

Software (Support) Engineering Intern - DP Infotech (Pvt) Limited   *Jan 2025 - July 2025*

Worked on DPMC ERP, a cloud-based ERP system developed by DP Infotech for the David Pieris Group of Companies. The platform manages end-to-end business operations for the automobile company including vehicle imports, island-wide distribution, after-sales services (service centers, workshops, and maintenance), along with HR and financial management modules.

Responsibilities:
- Assisted in troubleshooting production issues in the live ERP system under supervision of senior engineers.
- Modified Oracle Database queries (PL/SQL) and updated .NET Core API endpoints and JavaScript modules to fix bugs and implement minor feature changes.
- Performed root cause analysis (RCA) by analyzing database logs, application logs and error reports to identify and resolve system issues.
- Used JIRA for tracking assigned tasks and bitbucket for code commits and version control.

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

PROJECTS

SIMOOB – Container-Based Agent for Monitoring Metrics and Logs

SIMOOB is a lightweight observability tool built on a client-server architecture, featuring an agent that automatically collects and ships **system-level**, **network-level**, and **container-level** metrics and logs to a centralized dashboard. The solution reduces the need for manual SSH-based monitoring and provides real-time operational visibility into deployed workloads.

Links: View Project | Official Website
Technologies: Docker, GitHub Actions, Python, FastAPI, SQLAlchemy, SQLite, HTML/CSS/JavaScript

Rest Media – AWS Cloud Infrastructure

Designed the AWS backend infrastructure for Rest Media, a mobile app connecting restaurants, chefs, and food suppliers through high quality photos of dishes, ingredients, and menu ideas. Users can browse, save, and share content, while suppliers showcase products and promotions, enabling responsive, interactive experiences with likes, comments, and saved items. The architecture leverages EC2, RDS, S3, and ALB with public/private subnets, IAM roles, and Secrets Manager to secure data. Integrated a Lambda function to process image files and calculate image dimensions, ensuring fast and reliable performance for mobile users.

Link: View Project
Technologies: AWS(EC2, S3, RDS[MySQL], ALB, Lambda, VPC, IAM, Secrets Manager, KMS, CloudWatch)

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)   *June 2021 - June 2025*
BSc (Hons) in Information Technology
Final Year Thesis on "AI driven innovation for Sri Lankan rice farming management".

Central College Karandeniya-Galle   *August 2019*
G.C.E Advanced Level (Biological Science Stream)

PUBLICATION

"*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

"*FarmerSmart: CNN-Based Mobile System for Rice Variety Identification and Quality Grading*"
in Proc. 16th Int. Conf. Comput., Commun. Netw. Technol. (ICCCNT), Indore, India, Jul. 2025. (Core Author)

"*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)

Certifications/Certificates

Microsoft Certified: Azure Administrator Associate – NextGen Campus
AWS Academy Cloud Foundations
Introduction to Observability by Datadog
Docker Training Course for Beginners Kode Kloud
Introduction to DevOps by IBM

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.