

# THARINDU LAKSHAN

## COMPUTER SYSTEM & NETWORK ENGINEERING (FINAL YEAR UNDERGRADUATE)

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🌐 [tharindu-lakshan](#)

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📍 Egodagama, Heeloya, Bandarawela

### SUMMARY

Resourceful and Results driven final year Computer Systems & Network Engineering undergraduate with hands on experience in Linux and Windows system administration, cloud infrastructure, and containerization using Docker and Kubernetes. Skilled in automating deployments, implementing CI/CD pipelines, and managing databases in production and UAT environments. Proven ability to deploy, monitor, and optimize scalable systems while ensuring security and operational efficiency. Adept at collaborating with cross functional teams to deliver solutions for government and financial sector clients. Eager to leverage technical expertise and a strong problem solving mindset to contribute to innovative and reliable IT operations.

### WORK EXPERIENCE

#### EPIC LANKA PRIVATE LIMITED

**2024 April - February - Intern System Support Engineer**

**2025 March - Present - Associate System Support Engineer**

- Managed and optimized Linux (CentOS 7/8, RHEL 7/8/9) and Windows (2009/2012/2019) systems in production and UAT, ensuring high availability, security, and compliance.
- Configured three production/live environments, supporting and maintain six e-government projects and two financial sector clients.
- Implemented security best practices and applied vulnerability fixes, significantly reducing risk across client systems.
- Deployed and managed MySQL, PostgreSQL, and MongoDB databases in Docker containers, ensuring data integrity, privacy, and high performance.
- Configured and maintained database load balancing and high-availability clusters (ProxySQL, Percona XtraDB Cluster) for seamless failover and uninterrupted service.
- Optimized database and application performance through query tuning, indexing, and resource allocation.
- Automated backup solutions and streamlined package installations, minimizing downtime and manual intervention.
- Developed and executed Docker images for complex application deployments, enhancing CI/CD pipelines with Jenkins and Ansible.
- Implemented monitoring (Grafana, Prometheus, Netdata) for proactive detection and rapid resolution of system issues.
- Provided technical support and troubleshooting for client environments, balancing priorities and ensuring timely resolution of critical issues.
- Collaborated with cross functional teams to resolve real time production issues, enhance application functionality, and deliver high quality support to government and financial sector clients.

### EDUCATION

B.SC.(HONS)IN IT SPECIALIZED IN COMPUTER SYSTEM & NETWORK ENGINEERING ( 2021 - present )  
Sri Lanka Institute of Information Technology ( GPA - 3.0 )

GCE ADVANCE LEVEL (PHYSICAL SCIENCE) ( 2020 )  
Bandarawela Dharmashoka Central Collage

GCE ORDINARY LEVEL ( 2016 )  
Bandarawela Dharmashoka Central Collage

### SKILLS

- Programming:** C, C++, Java, Python
- Operating Systems:** Linux (CentOS, Ubuntu, Fedora, RHEL), Windows (2009/2012/2019)
- Databases:** MySQL, PostgreSQL, MongoDB, Oracle, ProxySQL, Percona XtraDB Cluster
- DevOps & Tools:** Docker, Kubernetes, Jenkins, Ansible, Git
- Monitoring:** Grafana, Prometheus, Netdata
- Web/Application Servers:** Apache Tomcat, Wildfly, Glassfish, Nginx
- Cloud Platforms:** AWS, Azure (VMs, EIPs)
- Other:** Samba AD, OpenStack, VMware Workstation

### EXTRACURRICULAR ACTIVITIES

- Member of Leo Club of SLIIT
- Member of School Prefect Board
- Member of School Cricket Team

## PROJECTS

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- **NFV (Network Function Virtualization) Demonstration with Socket Programming in C.**

Technologies: Linux(Ubuntu Server) OpenStack(NFVOs) / OpenDaylight(SDN) / OpenDaylight(VNFs)

- **Install and configure the latest version of Samba as a Active Directory Domain Controller in a Linux OS environment.**

Technologies: Virtual Machines(VMware Workstation) Ubuntu, Windows 10 pro

- **Oracle Database Deployment:** Installed Oracle 12c in Windows, managed PDBs, user administration, security, and backup/recovery on Microsoft Azure Cloud.

- **Implement a networking project from HealthCare hospital.**

Technologies: Project presentation, PKT file and a Final Report was created for this project(cisco packet tracer)

- **Implementation and Monitoring of Microservices and Application Servers Using Grafana, Prometheus, JMX Exporter, and Node Exporter. (Ceylinco life DOXMATE project - Associated with Epic Lanka).**

Technologies: grafana, prometheus, JMX exporter, Node exporter

- **End-to-End Setup and Configuration of Live and UAT Environments for DOXMATE with Multi-Tier Architecture and Advanced Processing Capabilities(Ceylinco life/ Vallible finance - Associated with Epic Lanka).**

Technologies: RHEL8, java 8/11, python 3.10.12, nginx, apache tomcat, NFS, mysql 5.7, Percona XtraDB Cluster, HA Proxy

- **Automated Deployment and Monitoring of a Web Application Using Jenkins, Ansible, Docker, Prometheus.**

Technologies: Vmware Workstation Linux(Contos 7) , docker , jenkins, ansible, prometheus/ grafana, git.

- **Configuration, Maintenance, and Issue Resolution of UAT and Live Environments for Mission-Critical Government Projects. (Valuation Department Stamp Duty Opinion System, Business Name Registration System, Coastal Ministry and Ministry of Foreign Affairs Systems - Associated with Epic Lanka)**

Technologies: RHEL8, glashfish, nginx, apache, mysql, docker, NFS, java

- **Implementing Database Load Balancing and High Availability with ProxySQL and Percona XtraDB Cluster for Production Environments( Associated with Epic Lanka)**

Technologies: MySQL, proxysql, Percona XtraDB Cluster, Red Hat Enterprise Linux (RHEL)

- **Automated CI/CD Pipeline for 7 Backend and 2 Frontend Microservices with Jenkins, Docker, and Git(Associated with Epic Lanka)**

Technologies: docker , jenkins, rhel 8

## CERTIFICATIONS

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- **Introduction to DevOps** -Issued by: Coursera | Authorized by: IBM
- **Introduction to Cloud Computing** -Issued by: Coursera | Authorized by: IBM
- **Hands-on Introduction to Linux Commands and Shell Scripting** - Issued by: Coursera | Authorized by: IBM
- **AWS Cloud Technical Essentials** -Issued by: Coursera | Authorized by: AWS
- **Introduction to Containers w/ Docker, Kubernetes & OpenShift** - Issued by: Coursera | Authorized by: IBM
- **Oracle Cloud Infrastructure 2023 Certified Foundations Associate** - Oracle
- **NDG Linux Unhatched Course** - Cisco Networking Academy
- **AZ-104: Microsoft Azure Administrator** - [KodeKloud](#)

## REFERENCE

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### Ms.Shashika L. Lokuliyana

M.Sc. (IT) SLIIT, B.Sc.(Sp.) Hons in IT (Spec. in CSN)  
(SLIIT), MIEEE, MCSSL, MISOC  
Senior Lecturer  
CSNE Degree Program Coordinator  
Secretary - IEEE Computer Society Sri Lanka Section  
Committee Member - IEEE WIE Sri Lanka Section  
Registrations Co-Chair - ICAC 2023 SLIIT, Malabe  
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### Mr.Shanika Sugathadasa

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