NAVINDU SIRIMANNA

Undergraduate Engineer Passionate in DevOps

@ navindusirimanna@gmail.com   ☎ +94 71 206 8855   ✉ Yatalamatta, Galle, Southern, Sri Lanka
in navindu-sirimanna-0b3898212   NavinduThimodya   🌐 Portfolio

PROFESSIONAL EXPERIENCE

Infrastructure (Backup & DevOps) Intern
MillenniumIT ESP - 6 months

📅 December 2024 – June 2025   📍 Colombo, Sri Lanka

- **System Administration & Linux:** Performed advanced administration of **RHEL and Oracle Linux**, including package management, local repository configuration, and troubleshooting for high-availability BFSI and Telecom environments.
- **Infrastructure & Virtualization:** Deployed and managed enterprise-grade virtualization and containerization platforms including **VMware vSphere, Oracle KVM, and Docker**.
- **Backup & Data Protection:** Implemented automated backup solutions and **Disaster Recovery (DR)** procedures for BFSI and Government sectors using **Veritas NetBackup** and **Flex Appliances**; authored technical manuals for system upgrades and high-availability data retention.

EDUCATION

B.Sc. Honours in Electronic and Telecommunications Engineering
University of Moratuwa

📅 Aug 2021 – Present   📍 Moratuwa, Sri Lanka

- **CGPA: 3.88 / 4.00**
- 4th Year Undergraduate with **First Class Honours**

GCE Advanced Level - Physical Science Stream
Richmond College

📅 2020   📍 Sri Lanka

- **Island Rank: 35**
- Z-Score: 2.7474

Diploma in Human Resource Management
NYSCO Vocational Training Centre

📅 2025   📍 Nuwara Eliya

- Achieved 'A' pass.

Certified Kubernetes Administrator (CKA)
The Linux Foundation

📅 In Progress – Expected 2026

OBJECTIVE

"Results driven Engineering undergraduate focused on building robust, high availability systems through a philosophy of absolute ownership. A rapid learner with a proven ability to master complex tech stacks and solve undefined challenges. Committed to delivering system excellence with reliability, integrity, and a relentless drive for perfection in execution."

TECHNICAL SKILLS

Infrastructure & DevOps

Docker   Kubernetes   Bash/Shell
RHEL   Oracle Linux   Networking
Virtualization (VMware, KVM)   Storage
Backup & Recovery

Programming & Web

Python   Java   C   Matlab

Databases & Tools

MySQL   MongoDB   Git Actions

Design & Specialized Tools

Unity   Blender   C# (Game Dev)

STRENGTHS

Hard-working   Innovative
Problem Solver   Extreme Ownership
Collaborative Teammate   Rapid Learner

KEY PROJECTS

Internship Projects

Oracle Database Appliance (ODA) Deployment
Bank of Ceylon (BOC) / ODA, Oracle DB, Tape Libraries

🗓 Dec 2024 – Mar 2025

- Deploying a new Oracle Database Appliance infrastructure and ensuring the functionality of legacy tape backup systems.
- Contribution: Led the physical rack mounting, cabling, and database configuration (edition, character set). Performed maintenance on **NetBackup tape libraries**, including manual removal of stuck tapes and updating library firmware.

"Thilinapath" Multi-Campaign App Deployment
Ministry of Education / Docker, K8s (RKE2), Jenkins, ArgoCD

🗓 June 2025

- Implementing a full-stack on-premise DevOps environment to automate the lifecycle of a government application.
- Contribution: Set up infrastructure including **Ubuntu VMs** and NFS servers. Orchestrated containerized applications using **RKE2 clusters** and a private Docker registry. Established **CI/CD pipelines** using Jenkins and ArgoCD for automated multi-environment deployment.

Nutanix Private Cloud & TrueNAS Deployment
Registrar General's Dept / Nutanix HCI, TrueNAS

🗓 Apr 2025

- A greenfield deployment of Hyper-Converged Infrastructure (HCI) and storage to modernize the data center.
- Contribution: Deployed Nutanix HCI at the Data Center, configuring storage, compute, and networking layers. Implemented and configured **TrueNAS storage**, conducting functionality testing to ensure system stability.

NetBackup Migration & Master Server Upgrade
Citizens Development Business Finance (CDB) / Veritas NetBackup, Oracle Linux, XFS

🗓 Mar 2025 – May 2025

- To migrate the legacy backup environment to new Oracle Linux servers and upgrade the Master Server for disaster recovery readiness.
- Contribution: Migrated the Master Server using catalog backups and resolved a critical **file system mismatch (ext4 vs. xfs)** between source and destination environments that blocked disaster recovery. Diagnosed and fixed version compatibility issues caused by outdated plugins during the upgrade.

Exadata Migration & ASR Configuration
Amana Bank / Oracle Exadata, ASR, My Oracle Support

🗓 Jan 2025 – Feb 2025

- Relocating mission-critical Exadata database nodes to the Pitipana Data Center and establishing automated hardware monitoring.
- Contribution: Executed the physical migration of Exadata nodes to the Pitipana Data Center. Configured **Auto Service Request (ASR)** to automatically generate tickets for hardware faults and coordinated Exadata patch upgrades.

Data Center Infrastructure Expansion
Dialog Axiata / Huawei Servers, Hitachi Storage, Flex Appliance

🗓 Jan 2025 – May 2025

- Executing a large-scale server placement and cabling project to expand data center capacity.
- Contribution: Managed server placement and structured cabling at Piliyandala DC, adhering to thermal management standards. Executed a **Flex Appliance storage expansion** and performed component replacements (CPU, Batteries) for Huawei and Hitachi systems.

University Projects

Asset Tracking System for Warehouses - (*Individual*)
JavaScipt, C, ESP-IDF, Arduino

🗓 2024

- Developed an **RFID-based asset tracking system** for forklifts, enhancing real-time inventory management.
- Implemented a **scalable software architecture**, focusing on efficient communication between the RFID system and **backend services**, ensuring robust data handling.

E-Note platform - (*Individual*)
Java Script, React, Node, Express, Mongo DB

🗓 2022 – Present

- Created a platform for sharing notes related to the Advanced Level Physical Science stream.
- Contribution: Planning the project, **designing the database**, developing the **backend API's**, and connecting them with the frontend.

Final Year Project: Neuro-Steered Speaker Extraction - (*Group*)
Neuroscience

🗓 Ongoing

- Developed an **online neuro-steered speaker extraction framework** surpassing existing benchmarks in attention-guided speech separation.
- Applied **EEG preprocessing and adversarial denoising** for artifact removal.
- Implemented **SOTA deep learning architectures** (e.g., M3ANet, NeuroHeed) for audio-EEG fusion.
- Focused on robust extraction of attended speaker's voice from mixed audio signals.

VOLUNTEER WORK & EXTRACURRICULARS

- **Crew Member: Logistics Committee** (Jan 2024): MoraForesight 1.0, IEEE Student Branch, University of Moratuwa.
- **Member: IEEE ProCom Chapter UOM '23/'24** (Jan 2024 – Present): IEEE Student Branch, University of Moratuwa.
- **Member of Leo Club '22/'23 and Leo Club '23/'24** (Jan 2022 – Present): University of Moratuwa.
- **Volunteer: Sasnaka Sansada Foundation** (Jan 2021 – Present)
  - Tutor - "Ganitha Saviya", Nationwide Mathematics Education Development Seminar Series.
  - Volunteer - "Re-Green Earth", Islandwide Tree Planting Campaign.
- **Executive Committee Member** (2020 – 2024): Science Society of Richmond College.

REFERENCES

Prof. (Mrs.) Dileeka Dias

@ dileeka@uom.lk

✉ B.Sc. Eng. Hons. (Moratuwa), M.S. (Calif.), Ph.D. (Calif), MIE(SL), C.Eng., MIEEE
Professor, Department of Electronic & Telecommunication Engineering, University of Moratuwa, Moratuwa, Sri Lanka
Phone: +94(0)112731191

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(Mr.) Amith Mallawarachchi

@ amithm@mitesp.com

✉ B.Sc. Eng. (University of Ruhuna, Sri Lanka)
Senior Engineer (Infrastructure),
MillenniumIT ESP,
450D R. A. De Mel Mawatha, Colombo 00300, Sri Lanka.
Phone: +94(0)761624466