

SACHINI SENEVIRATHNA

Systems Engineer | BSc (Hons) Engineering



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No:78,Dehigama, Pahamune,
Kurunegala, Sri Lanka.

EDUCATION

- **Bachelor of Science in Engineering (BSc (Hons). Eng.)**
University of Peradeniya
Specialization - Electrical and Electronic Engineering
- **Secondary Education**
Maliyadeva Balika Vidyalaya, Kurunegala
G.C.E. Advanced Level Examination (2017)

TECHNICAL SKILLS

- Operating Systems :
 - RHEL , AIX, Solaris
- Middleware :
 - Oracle WebLogic, IBM WebSphere, Apache Tomcat, Nginx
- DevOps, Cloud & Container Orchestration:
 - Docker, Kubernetes, Tanzu TKG, Redhat Open shift, Git, GitHub Actions, Jenkins, Argo CD
- Programming and Scripting:
 - Python / C / MATLAB / R / Assembly / Bash
- Database:
 - MongoDB, SQLite
- Machine Learning, Deep Learning
- Network Simulation:
 - Cisco Packet Tracer, GNS3, Mininet
- Others:
 - AutoCAD, Proteus, COMSOL, Open DSS, MS Office, Adobe Photoshop, Adobe Premier Pro, Audacity, Bandlab, Odeo
- Monitoring tools:
 - Appdynamics
- App testing tools:
 - Postman / Soap UI / Swagger

PROFILE

Adaptable and innovative System Engineer with over 1 year of professional experience in administering, deploying, and optimizing critical enterprise systems and services across virtual, physical, and containerized environments. Strong background in system troubleshooting, production support, automation, and middleware administration. Proven ability to drive DevOps initiatives, enhance operational practices, and lead technical projects. Eager to leverage technical expertise, problem-solving skills, and leadership experience in dynamic IT infrastructure and operations roles.

PROFESSIONAL EXPERIENCE

- **System Engineer — Sampath Bank PLC - March 2024 – Present**
 - System Administration & Critical Application Support: Managed and maintained critical business applications (Sampath Vishwa Retail and corporate, Digital Onboarding, etc.) across diverse infrastructure.
 - Production Issue Resolution & High Availability: Resolved production issues, performed root cause analysis, and ensured high system uptime and reliability.
 - Deployment, Migration, & Upgrade Management: Led system deployments, platform migrations, and version upgrades for stable releases.
 - Multi-Platform & Middleware Management: Administered servers (AIX, Solaris, RHEL), middleware (WebSphere, WebLogic, Tomcat, Nginx), and container platforms (Docker, Kubernetes).
 - Environment & Security Management: Maintained consistent environments (Dev, UAT, Prod), managed databases (MongoDB, SQLite), and implemented security measures.
 - Infrastructure & Access Control: Handled VM provisioning and managed network access.
 - DevOps & Project Contribution: Contributed to DevOps initiatives and participated in key projects.
 - IT Operations & Compliance: Supported audits and managed IT resources.
 - Automation & Innovation: Developed automation tools (Python, Bash) and implemented monitoring solutions, including AI-based predictive monitoring.
- **Engineering Trainee (March 2022 - May 2022)**
SLT-Mobitel
Integrated Network Operation Centre.
- **Engineering Trainee (January 2022 - March 2022)**
Ceylon Electricity Board
Lakvijaya Power Station, Norochcholai, Upper Kotmale Power Station, Transmission Operation and Management, Project and Heavy maintenance, Distribution (Colombo City)

CERTIFICATIONS

- Python for Everybody Specialization – University of Michigan
- Building Arduino Robots & Devices – Moscow Institute of Physics and Technology
- Lean White Belt Certificate – Lean & Green Solutions, Sri Lanka
- Diploma in Computer Applications – Sarvodaya-Fusion
- C/ C++, Visual Basic, AutoCAD, Matlab, Python, Java and Web design course: Universal Computer and accounting Technologies, Kurunegala
- Following :
 - Redhat Certified System Administrator (RHCSA)
 - Microsoft Azure Fundamentals AZ-900 Exam Prep
 - IBM Full-Stack JavaScript Developer Specialization (several courses Completed)
 - DevOps Mastery Specialization by KodeKloud (several courses Completed)

ACHIEVEMENTS & LEADERSHIPS HELD

Technical Competitions :

- Finalist: Arimac FutureCast Ideathon 2021
- Finalist & Most Popular: INVENTRA 2020
- Quarter Finalist: Idealize 2021
- IEEE Sri Lanka Section Award: Leading the Best Student Affinity Group Project (2022)

Sports :

- Multiple medals in Inter-University Taekwondo Championships and Sri Lanka University Games in Taekwondo.
- Quarter Finalist: Korean Ambassador's Cup Taekwondo Championship, 2023
- University Colors : Taekwondo (2019, 2020, 2022)

Extra Curricular and Leaderships held :

- IEEE Women in Engineering (WIE) Student Branch Affinity Group, University of Peradeniya
 - **Chairperson** (2021/2022)
 - **Vice Chair** (2020/2021)
- Taekwondo Team, University of Peradeniya
 - **Women's Team Captain** (2021-2023)
 - **Team Member** (2019 to 2023)

MEMBERSHIPS

- Member: IESL
- Member: IEEE, IEEE Power & Energy Society, IEEE Women in Engineering
- Member: Sri Lanka Taekwondo Federation

PUBLICATIONS

S.B. Ihalagedara, M. Koswaththa, S. Senevirathna, M.B. Dissanayaka, and A. Udunuwara, "Implementing an Intrusion Detection System for Software Defined Networks using Artificial Intelligence," Peradeniya University International Research Sessions (iPURSE), vol. 24, 2023.

PROJECTS

- **Implementing an Intrusion Detection System for Software Defined Networks using Artificial Intelligence (Final Year Project)**

Final year undergraduate project focused on utilizing Machine Learning and Deep Learning techniques to develop an Intrusion Detection System for a Software-Defined Network (SDN), simulated using the Mininet emulator.

Key areas: Machine Learning, Deep Learning, Cybersecurity, Intrusion Detection Systems, SDN

- **Real Time Monitoring Dashboard**

Developed a real-time monitoring dashboard to enhance visibility into Sampath Vishwa system performance and reduced the time taken to detect anomalies, improving system uptime.

- **Secure Log Retrieval Application**

Designed and implemented a secure log retrieval system, enabling developers to access logs independently—reducing delays and manual interventions.

- **Proactive System Health Monitoring with AI-Driven Anomaly Detection (Ongoing)**

An AI-driven anomaly detection system that integrates logs and system parameters to predict and monitor failures in real time.

- **Master Walk : Wearable Safety Device for the Visually Impaired**
- **Fire Alert System using PIC16F877A**
- **Wireless water level indicator and Controller**
- **Morse Code Receiver and Transmitter using python and Arduino**

INTERESTS

- System Engineering / System Reliability Engineering
- DevOps / AIOps
- AI and Machine Learning / Data Engineering

SOFT SKILL

- Project Management
- Leadership
- Verbal & Written Communication

REFERENCES

Prof. Maheshi Dissanayake

Professor - Department of Electrical and Electronic Engineering,
Faculty of Engineering,
University of Peradeniya,
Sri Lanka.

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