Thurunu Mihiranga

Computer Science Undergraduate

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Summary _____

As a Computer Science undergraduate, I'm passionate about software development and exploring emerging technologies. I have hands-on experience with AWS, Spring Boot, Docker, and Linux system administration. My academic work sharpened my skills in writing clean, efficient code and applying design patterns. I enjoy working in agile teams and contributing to real-world problem solving. Curious and driven, I'm always looking to grow as a developer. To me, development isn't just a skill — it's something I truly enjoy.

Technologies _____

Languages	Java Python JavaScript C SQL
Frameworks	Spring Boot Express.js Flask Bootstrap
Databases	MySQL MSSQL Server Firebase MongoDB
Markup & Frontend	React.js HTML CSS XML YAML
DevOps Tools	Docker GitHub Actions Terraform Kubernetes Prometheus Git
Cloud Platforms	AWS Google Cloud

Education

Bachelor of Science Computer Science (Hons)

General Sir John Kotelawala Defence University, Sri Lanka

Certifications _____

• Introduction to Linux (LFS101)	Mar 2025
Introduction to Kubernetes (LFS158)	Jun 2025
GitHub Actions - KodeKloud	Feb 2025
Docker Foundations Professional Certificate	Mar 2025
AWS Introduction to Cloud 101	Mar 2025
• CCNAv7: Introduction to Networks	Jan 2023

Publications _____

Advances in Multi-modal AI for Breast Cancer Diagnosis: A Comprehensive Review Thurunu Mihiranga, *GAI Uwanthika*

Feb 2025

Jan 2022 - Dec 2025

5th Student Symposium, Faculty of Computing 2025, General Sir John Kotelawala Defence University, Sri Lanka

Projects _

1. Evo Tux, Smart Linux Kernel Parameter optimizer

Developing an automated tool leveraging genetic algorithms to dynamically optimize critical Linux kernel parameters, to improve system performance.

Final Year Project Ongoing

• Technologies: Python (DEAP) | Linux (sysctl / sysfs) | sysbench

2. SpringBoot, Authentication API

 Developed a secure authentication & authorization API with Spring Security & JWT, enhancing system security and user authentication.

 Integrated AWS RDS and implemented role-based access control (RBAC), improving database efficiency and access management.

Technologies: SpringBoot | AWS RDS | MySQL

3. Beowulf Cluster for Parallel Computing, Distributed Computing Setup

• Configured a distributed computing cluster using virtual machines, enhancing computational efficiency.

 Automated network setup, SSH access, and MPI configuration for highperformance computing.

• Technologies: Linux | Bash | SSH | MPI

4. Loan Manager, Desktop Application

• Developed a Java-FX based financial management system for tracking loans and repayments, enhancing user experience.

• Technologies: Java | Java-FX | MySQL

5. Skin Oiliness Detection API, Real-time Image Analysis

• Engineered a RESTful API for real-time image analysis using AI-based skin condition detection, deployed on AWS Lambda.

Utilized Flask and Docker to streamline development and deployment processes.

• Technologies: AWS Lambda | Flask | Docker

Self-Study Project Feb 2025

Academic Project Dec 2024

Freelance Project Aug 2024 – Spt 2024

Academic Project Apr 2024

Extracurricular ___

- Travel Enthusiast enjoy hiking and exploring new places during leisure time
- Rugby player actively participated in school-level tournaments
- Volunteering contributed to university student chapters projects

References ____

Dr. Kaneeka Vidanage

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