

DILUSHA CHAMIKA



CONTACT

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[linkedin](#)

SKILLS

- Web Development
- C (Programming Language)
- Java
- Machine Learning
- GitHub
- Teamwork
- Data Structures
- Algorithms
- Spring/Springboot
- Internet of Things (IoT)



PROFILE

Dedicated and innovative Computer Systems Engineering Undergraduate at SLIIT with hands-on experience in Java, Spring Boot, and IoT-based drone systems. Passionate about solving real-world problems using modern software and hardware technologies. Proven ability to work in teams, contribute to competitions, and design full-stack applications with solid understanding of software architecture, backend APIs, and database management.



EDUCATION

2023 - 2027

B.Sc. in Computer Systems Engineering

Sri Lanka Institute of Information Technology - Colombo

- GPA: 3.62 / 4.0



ACHIEVEMENTS

Finalist at CODEFEST 2024 - Algothon

Issued by Sri Lanka Institute of Information Technology · Jan 2025

- Part of Team ENIGMA (with Sandil Perera and Hesara Perera), we were finalists in the Algothon Tertiary Category at CODEFEST 2024, organized by SLIIT Faculty of Computing.

5th Place - SLIIT Xtreme 3.0

Issued by IEEE Computer Society of SLIIT

- As part of Team ENIGMA, secured 5th place at the SLIIT Xtreme 3.0 coding competition, showcasing collaborative problem solving and coding skills.

Dean's List - Year 01 Semester 01 (GPA 3.7)

Issued by SLIIT · Oct 2024

- Named to the Dean's List for academic excellence with a GPA of 3.7 in the Computer Science program, reflecting dedication to academic rigor and performance.



LICENSES & CERTIFICATIONS

Advanced Learning Algorithms

DeepLearning.AI, Stanford University — Issued Jun 2025

Supervised Machine Learning: Regression and Classification

DeepLearning.AI — Issued Apr 2025

Networking Basics

Cisco — Issued Dec 2024

Python Programming

University of Moratuwa — Issued AUG 2024

Python for Beginners

University of Moratuwa — Issued MAY 2024



PROJECTS

GymSync - Seamless Gym Management System

- Feb 2025 - May 2025
- An advanced Gym Management System developed as part of the SE2012 Object-Oriented Analysis & Design module at SLIIT. Streamlines gym operations with real-time equipment tracking, booking systems, and smart equipment management.
- Skills used: React.js, Vite, Tailwind CSS, Java Spring Boot, REST APIs, MySQL (JPA/Hibernate)
- Live Site: [GymSync - Seamless Gym Management System](#)
- GitHub: github.com/SLIIT-FacultyOfComputing/group-project-group-5

Autonomous Landmine Detection System Using Magnetic Field Sensing Technology

- Nov 2023 - Mar 2024
- Developed a landmine detection system using magnetic sensors on a 4WD Arduino robot with a rotating sensor arm to optimize coverage. Focused on sensor integration, robot navigation algorithms, and real-time alert visualization.
- Skills used: Robotics, IoT, Arduino programming



PUBLICATIONS

Advancing Agriculture: A Review of UAV Technologies and Their Impact on Sustainable Farming

2025 International Research Conference on Smart Computing and Systems Engineering (SCSE) · June 2025

A comprehensive review of UAV technologies in precision farming, covering crop health monitoring, yield prediction, sensor integration (RGB, multispectral, thermal, LiDAR), and data analysis techniques like NDVI and machine learning. Discusses challenges in operational efficiency, regulations, and scalability.

Co-authored with Hesara Perera, Sandil Helitha Perera, Sandali Sandagomi, supervised by Hanojhan Rajahrajaasingh, Dhanushka Balasingham, Dinith Primal, and Prof. Anuradha Jayakodi.