



KAVEESHA PIYATHILAKA

COMPUTER ENGINEERING UNDERGRADUATE

CONTACT

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- kaveeshapiyathilaka@gmail.com
- Kurunegala
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TOOLS SKILLS

- HTML/ CSS/ JavaScript
- Java
- Python
- C++
- SQL
- Linux
- Figma
- MATLAB
- R

SKILLS

- Analytical & Problem solving
- Time management
- Communication Skills
- Future focused and Goal oriented
- Excellent leadership skills
- Drawing

LANGUAGES

English
Sinhala

PROFILE

As a motivated Computer Engineering undergraduate at General Sir John Kotelawala Defence University, I am passionate about innovation and problem-solving. With a strong foundation in both hardware and software, and hands-on experience in programming languages and engineering tools, I am eager to tackle complex challenges. Committed to continuous learning and staying updated on emerging technologies, I thrive in collaborative environments. I am excited to apply my skills to real-world engineering problems and contribute to innovative solutions.

EDUCATION

- Bachelor of Science in Computer Engineering 2022 - Present
[General Sir John Kotelawala Defence University, Rathmalana](#)
- G. C. E A/L Examination 2017 - 2019
[Wayamba Royal College , Kurunagala](#)
Physical Science - C , Physics - C , Chemistry - C
- G. C. E O/L Examination 2015 - 2016
[Wayamba Royal College , Kurunagala](#)
A-8 , B-1

ACHIEVEMENTS

PUBLICATION

- Innovative Approaches to Protecting Crops from Monkey Threats Using Smart Technology, 5th Student Symposium – FOC, General Sir John Kotelawala Defence University, Rathmalana, Sri Lanka 2025

CERTIFICATES

- Network Administration: Build Core Skills for Network Management and Security - [LinkedIn for Learning](#) 2025
- Linux Unhatched - [Cisco Networking Academy](#) 2025
- Data Analytics Essentials - [Cisco Networking Academy](#) 2025
- IT Security Foundations: Network Security - [LinkedIn for Learning](#) 2025
- Securing the IoT: Privacy - [LinkedIn for Learning](#) 2025
- Python for Beginners - [University of Moratuwa](#) 2024
- IT Essentials - [Cisco Networking Academy](#) 2024
- CCNA: Introduction to Networks - [Cisco Networking Academy](#) 2023

REFERENCE

Niluka Anuradha
Senior Full Stack Engineer
Euka Future Learning
+94 77 662 0464

Uditha Manupriya
Asphalt and Crusher plant Engineer
Road Development Authority
+94 76 715 5284

PROJECTS

- **Personal Diary Mobile App | Android Studio**
Developed a personal diary app with features like text/photo entries, password protection, cloud backup (Firebase), and daily inspirational images. Enhanced mobile development and cloud integration skills.
- **FabriTrack - IoT-Based Real-Time Monitoring for Fabric Fusing**
Developed a real-time monitoring system with fault detection (YOLO), automated reporting, chatbot-assisted maintenance, and Firebase integration. Built with Flutter, Firebase, and HTTP, with plans for predictive maintenance and MQTT.
- **Single-Axis Solar Tracking System**
Developed a solar tracking system using Arduino, servo motors, and LDRs to optimize solar panel efficiency. Designed to address energy challenges by improving solar power harnessing.
- **Voice-Controlled Home Automation System**
Developed a smart home automation system using NodeMCU ESP8266, a 4-channel relay, and an Android app for voice-based appliance control via WiFi (HTTP/MQTT). Designed real-time status updates and seamless user interaction for efficient home automation.
- **Facial Oiliness Detection System**
Developed an AI-powered image processing system to analyze facial oiliness using CNNs and computer vision. Implemented real-time detection based on light reflection and skin texture analysis, enabling accurate classification and skincare recommendations.
- **Parallelized Conway’s Game of Life using CUDA & MPI**
Developed a high-performance GPU-accelerated implementation of Conway’s Game of Life using CUDA for parallel cell updates and MPI for distributed processing. Optimized memory access, asynchronous execution, and grid partitioning for scalability and efficiency.

EXTRACURRICULAR ACTIVITIES

- Volunteering -
- IEEE WIE Student Branch Affinity group of Kotelawala Defence University - [Volunteer Management Lead](#)
[SAHASATH charity project \(Co-chair\)](#)
 - IEEE Student Branch of KDU - [IEEEExtreme 17.0 \(Finance team\)](#) , [Step into industry 2.0 \(Finance team\)](#)
 - BCS Student Chapter of KDU - [BCS AGM](#) , [Cre8x](#)
 - IEEE Computer Society of KDU - [HackBOOST \(Publicity team\)](#)
 - SEDS - KDU - [SEDS AGM \(Finance team\)](#) , [LAZARUS’24](#)