DEEGHAYU SUWAHAS ADHIKARI

Fresh Graduate | IoT Enthusiast

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SUMMARY

A fresh graduate with a diverse skill set spanning Computer Studies, Electronics, and Physics. Proficient in web development, showcasing a dynamic portfolio featuring IoT projects, Deep Learning projects, and React-based frontend projects. Adept at crafting engaging and user-friendly digital experiences. Proven problem-solving skills and critical thinking abilities.

TECHNICAL SKILLS

Languages: C, Java, Python, HTML, CSS, JavaScript

Technologies: GitHub, Netlify, Deep Leaning, Arduino, ESP32/8266,

IDE: VSCode, PyCharm, Arduino IDE, Tinkercad

EDUCATION

07/2021 - 04/2024 **BSc in Physical Science**   **University of Kelaniya**
Freshly graduate student who follows Computer Studies (major), Electronics, and Physics as subjects with very good (>3.2) GPA.

2011 - 2019 **G.C.E. Advanced Level Examination 2019**   **Gurukula Collage - Kelaniya**
Passed with results of B, C, S in physical science subjects (physics, chemistry, com. maths) and got selected to UoK with a scholership

06/2023 **Professional Certificate - Responsive Web Design**   **www.freecodecamp.org**

11/2023 **Professional Certificate - Machine Learning with Python**   **www.freecodecamp.org**

Ongoing **Professional Certificate - Introduction to Deep Learning**   **University of Kelaniya**

PROJECTS

2024 - Ongoing **AI-based assignment-solving Android app**   **https://github.com/DeegayuA/SnapLearn**
Developing an Android application integrating Gemini AI to provide comprehensive assignment-solving assistance. The app utilizes Kotlin for its native Android development and leverages Gemini AI's capabilities for problem-solving and explanation generation.
Kotlin, jetpack compose, Google's Gemini AI

2023 - 2024 **Research - Quadcopter Based Intelligent Irrigation System**   **http://green-wing.scienceontheweb.net**
The "Quadcopter-Based Intelligent Irrigation System" research project merges electronics and agriculture, utilizing quadcopter technology with intelligent sensors to monitor real-time soil moisture, crop health, and environmental conditions. The goal is an autonomous irrigation system that dynamically responds to crop needs, optimizing water use and enhancing yield. This innovative approach aims to revolutionize traditional agriculture by introducing efficiency and sustainability. Ongoing research focuses on refining algorithms, improving sensor accuracy, and validating system effectiveness through field trials. The interdisciplinary project showcases the transformative capacity of electronic research in addressing real-world problems.
IoT, Object Detection, Image Processing, API integration, DL, ML, MYSQL, HTML, CSS

2021 **Portfolio Website**   **https://github.com/DeegayuA/Website**
Created a dynamic and visually appealing portfolio website using HTML, CSS, and JavaScript. Implemented the newest Human-Computer Interaction (HCI) practices for an optimal user experience (UX), incorporating widely accepted UI practices to showcase skills and achievements effectively.
HTML, CSS, JS

2022 **COST CAFE | Cafe Management System**   **https://github.com/DeegayuA/COST-CAFE**
Created a robust Cafe Management System (COST CAFE) using Java. The system efficiently manages cafe operations, including orders, inventory, and customer interactions, streamlining processes for enhanced efficiency and customer satisfaction.
Java, MySQL

2023 **TalkWave | React-Based Real-Time Chat App (Front End)**   **https://github.com/DeegayuA/TalkWave**
Developed the front end of a real-time chat application called TALKWAVE using React. Implemented responsive and intuitive user interfaces, enabling users to engage in seamless real-time communication.
React Js

ACHIEVEMENTS AND AWARDS

| 02/2024 | **Participation - UWU ROBOT BATTLES 2.0: Death Race (2024)** | Uva Wellassa University, Sri Lanka |

Competed in the high-intensity UWU Robot Battles 2.0: Death Race, demonstrating robotics skills and collaborative spirit.

| 11/2023 | **Second Runner Up - Sky of Icarus Custom-Drone competition - 2023** | IESL Young Member Section, South Eastern University, Sri Lanka |

Achieved second runner-up in the Sky of Icarus 2023 drone competition (IESL Young Member Section), demonstrating expertise in drone technology and collaborative teamwork.

| 04/2022 | **Best of the Class | Final Year | School** | Gurukula National Collage, Kelaniya |

Proudly attained Class Proficiency in my final year (13 M1) at Gurukula National College, Kelaniya, underscoring my commitment to academic excellence. Grateful for the supportive teachers and conducive learning environment; these factors significantly contributed to my educational journey and achievements.

| 11/2018 | **Merit Certification | Open Day Robotic Competition** | NERDC, Sri Lanka |

Pleased to achieve a Merit Certification at the District Level Open Day Robotic Competition organized by NERDC Sri Lanka. This recognition underscores my dedication, technical prowess, and excellence in a competitive academic setting. Participating not only deepened my understanding of robotics but also contributed to my school's reputation at the district level.

| 06/2018 | **Participation | SLIIT GAMEFEST 2K18** | SLIIT |

Thrilled to showcase my involvement in SLIIT GAMEFEST 2K18, a prestigious Game Development Competition by SLIIT. This experience immersed me in game development, fostering collaboration with like-minded individuals. Despite not securing a specific placement, the gained knowledge and collaborative spirit significantly contributed to my growth in the exciting field of game development.

LEADERSHIP AND TEAMWORK

| 2021 - 2023 | **Steam - VidE** | Media Unit, FOS, UOK |

Event Coordinator, VidE - Current - 21/22
Head of Photography 20/21
Member 19/20

| 2022 - 2023 | **Inventors Club** | University of Kelaniya |

Vice President 21/22
Junior Treasurer 20/21

| 2022 - 2023 | **E-Waste Project** | Electronic Development and Innovation Center | University of Kelaniya |

Junior Electronics Lead 20/21
Electronics Lead 21/22

| 2021 - 2022 | **Astronomy and Space Science Association** | University of Kelaniya |

Co-Coordinator 20/21
Main Web Developer 19/20 and 20/21
Committee Member 19/20

| 2022 | **Statistic and Computer Science Students' Association** | University of Kelaniya |

Editor 20/21

LANGUAGES

Sinhala - Native, **English** - Intermediate , **German** - Beginners ,

REFERENCE

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