Sasan Dilantha

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Who am I

I'm a highly motivated BSc (Hons) Computer Science & Technology undergraduate at Uva Wellassa University of Sri Lanka, passionate about building intelligent and scalable systems. With hands-on experience in AI/ML, Full Stack Development, DevOps, and Mobile App Development using Expo, I thrive in dynamic, collaborative environments guided by Agile methodologies. My curiosity drives me to explore innovative IoT applications, and my leadership roles in IEEE and FOSS communities have strengthened my teamwork and problem-solving skills.

Education

UG   **BSc(Hons) Computer Science & Technology**, Uva Wellassa University of Sri Lanka.   Sept 2021 – PRESENT

- Cumulative GPA: 3.44

Diploma in Information Technology, Wayamba University of Sri Lanka.   2019 – 2020

- **Coursework:** .Net, PHP

Projects

Mapping Sugarcane Growth Stages Using UnmannedAerial Vehicle (UAV) Based Multispectral: A Case Study in Sri Lanka   Ongoing Reserch Project ☑

- **Tools Used:** Python, Scikit-learn, TensorFlow | OpenDroneMap, QGIS, GDL | DJI Phantom 4 Multispectral

Poultry Farm System (PMS)   Project repo - backend ☑
                                                                                         Project repo - frontend ☑

- A microservices-based poultry farm management app with IoT integration and a React Native interface for real-time monitoring
- **Tools Used:** Backend: Spring Boot (Java), MySQL, Apache Kafka | IoT Server: Flask (Python), MongoDB | IoT Device: ESP32 programmed with C++ | Front-end: React Native(Expo)

VoltSync   Project repo ☑

- VoltSync, a Top 10 innovation at Innovate with Ballerina 2024 by IEEE and WSO2, predicts power shortages using LSTM models and suggests solutions.
- **Tools Used:** Front-end: React, Vite | Backend: Ballerina, MySQL | API: Flask for communication with ML models | ML Models: LSTM-based prediction, operational datasets

CipherX   Project repo ☑

- CipherX, a Mobile App Development project, is a secure chat app that encrypts and decrypts messages exclusively within the app.
- **Tools Used:** Development Platform: Android Studio | Programming Language: Kotlin

Mental Health Service (MHS)   Project repo ☑

- A stress management app with tools for stress measurement, mentor/doctor channeling, video conferencing, and PHPMailer-based communication.
- **Tools Used:** Backend: Core PHP, MySQL | Web Pages: HTML, CSS & JS | Real-Time Features: WebSocket for chat and video conferencing

Skills

Programming: Java, Python, C/C++, Kotlin, PHP, React, React-Native, Vite, Android Studio, HTML, CSS, JavaScript, Spring Boot, Spring, Hibernate, Django, Flask, Expo

ToolsVersion Control & DevOps Tools: PHPGit, GitHub, GitHub actions, Docker, and Kubernetes (basic knowledge)

Databases: MySQL, MongoDB

Other: TensorFlow, PyTorch, Scikit-Learn, ESP32, Arduino, PIC microcontrollers, OpenCV, Apache Kafka

Certifictions

Artificial Intelligence in Embedded Systems   Oct 2024
University of Moratuwa
AI/ML Engineer - Stage 2   Feb 2024
SLIIT | Sri Lanka Institute of Information Technology
AI/ML Engineer - Stage 1   Jun 2022
SLIIT | Sri Lanka Institute of Information Technology

Awards & Competitions

Top 10 Best Innovations in the Innovate with Ballerina   2024
Organized by the IEEE Student Branch, University of Moratuwa, in collaboration with WSO2
IEEEXtreme   2023, 2022, 2021
Organized and managed by the IEEEXtreme Executive Committee
Google Hash Code   2022
Organized by Google

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Artificial Intelligence in Embedded Systems   Oct 2024
University of Moratuwa
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AI/ML Engineer - Stage 1   Jun 2022
SLIIT | Sri Lanka Institute of Information Technology

Leadership & Extra curricular Activities

Club Lead, FOSS Community - UWU   Jun 2024 - PRESENT
Chairperson, IEEE Industry Applications Society   Jan 2024 - PRESENT
Team Member, University SLUG Cricket Team   2023/2024
Program Team Member, LET's Talk Project   Mar 2023 - Jan2024
IEEE Young Professionals, Sri Lanka

References

Mr. W. A. Sanjeewa   **Mr. Sudaraka Senevirathne**
Lecturer,   Community Lead,
Uva Wellassa University of Sri Lanka.   FOSS Sri Lanka.
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