

SUWAN SANKAJA

COMPUTER SCIENCE & ENGINEERING UNDERGRADUATE

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ABOUT ME

I am a passionate and self-motivated individual with expertise in Full Stack Development, Data Science, and AI. I enjoy solving challenges and creating innovative solutions that make a real impact. With a focus on growth and delivering meaningful results, I bring curiosity, dedication, and a strong work ethic to everything I do.

PROFESSIONAL EXPERIENCE

Software Engineer, Avantrio (Pvt) Ltd 2024 Jun - Present

- Continued work on the "Prop-AI" project using the existing technology stack.
- Implementing new backend and data related developments related to advanced logic and calculations that helps to score the real estate properties more efficiently.

Software Engineer Intern, Avantrio (Pvt) Ltd 2023 Nov - 2024 May

- Assigned to the "Prop-AI" project, a real estate web application.
- Improved data pipeline efficiency by 60% by optimizing existing logic, enabling parallel execution, and automating processes.
- Enhanced system scalability and reliability to handle increasing data volumes.

PROJECTS

Transformer-Based Natural Language Explanation Generation for APR (Ongoing) 2024 Jun - Present

- Final-year research project focused on developing a transformer-based model for generating natural language explanations and performing automated bug repair.
- The project involves creating a novel dataset containing explanations for buggy code, which serves as a foundation for model training.
- **Tech Stack : Python, Jupyter, CUDA, PyTorch, Java**

Crypto Notifier 2024 Oct - 2024 Nov

- Solo project initiated out of a personal interest in cryptocurrency.
- Designed and developed a comprehensive cryptocurrency alert system to track significant price fluctuations in coin pairs.
- Incorporated automated real-time email notifications to promptly inform users of notable price changes, enhancing decision-making. ([Github](#))
- **Tech Stack: Python, Docker, and Cloud infrastructure (Digital Ocean)**

Workout Buddy 2024 Sept - 2024 Oct

- Solo Project for Fitness Tracking.
- Developed a MERN stack web app to log, edit, and track workout routines effortlessly.
- Created a user-friendly React.js interface and implemented robust APIs with Node.js and MongoDB. ([GitHub](#))
- **Tech Stack : React, Node.js, Express.js, MongoDB**

EcoVibe

2024 Jan - 2024 Jun

- Solo Project for the Professional Portfolio Module in the university.
- Built, a sustainability-focused mobile app promoting eco-friendly practices on campus.
- Integrated features like a Community challenges , progress tracking, recycling guide and green tips. ([GitHub](#))
- **Tech Stack: React Native, Node.js, MongoDB**

Medical Chatbot

2023 Jun - 2023 Nov

- Group Project for the Data Science Project in the university.
- Built a multi language medical chatbot with natural language understanding.
- Integrated LLAMA 2 for general query responses. ([Github](#)).
- **Tech Stack : React, Tailwind CSS, RASA NLU, PHP, Spring Boot, MySQL**

SKILLS

Technical Fields:

- Full Stack Development
- DevOps
- Machine Learning
- Data Science
- Mobile Development
- Cloud Computing

Programming Languages:

- Python
- Java
- JavaScript
- Go

Databases:

- MongoDB
- PostgreSQL
- MySQL

Frontend:

- React
- React Native
- Tailwind

Backend:

- Express
- Node.js
- Spring Boot
- Django

Tools & Services:

- Docker
- Git
- AWS
- Postman

Machine Learning:

- Jupyter
- PyTorch
- Keras
- CUDA

EDUCATION

BSc Eng Hons, Computer Science & Engineering

2021 Jun - Present

University of Moratuwa

- Specializing in Data Science & Engineering

Royal College

2016 Jun - 2019 Aug

- G.C.E A/L 2019: AAB Passes (Physical Science Stream)
- G.C.E O/L 2015: 9 A Passes

CERTIFICATIONS

- Machine Learning Specialization - DeepLearning.AI
- Networking Essentials - Cisco
- Introduction to IoT - Cisco
- Introduction to Cybersecurity - Cisco
- Machine Learning Foundations - AWS
- Machine Learning for Natural Language Processing - AWS

HIGHLIGHTS

- Deans List: Semester 5, 6
- SLIIT Bashaway 2023: 2nd Runner up
- [ProjectEuler.net](#): Island 7th (in Sri Lanka Region)
- ACES Coders 2023: 8th place
- Interests: Chess ,Tennis, Karate

REFERENCES

Mr. Suresh Sandirasegaram

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