

KASUNI HANSACHAPA



Computer Engineering Undergraduate

ABOUT ME

As a Computer Engineering student, I'm passionate about technology and solving problems. I'm eager to apply my skills in software engineering and machine learning through an internship, committed to learning and making meaningful contributions to innovative projects.

EDUCATION

University of Peradeniya

BSc.Eng(Hons) in Computer Engineering

Current GPA : 3.35/4.00

Rathnavali Balika Vidyalyaya, Gampaha

G.C.E. Advanced Level, 2019

Physical Science Stream

CERTIFICATES

[Programming for Everybody \(Getting Started with Python\)](#)

University of Michigan | Coursera

[Supervised Machine Learning : Regression and Classification](#)

DeepLearning.AI | Coursera

[Generative AI for Everyone](#)

DeepLearning.AI | Coursera

[OOPs in Java](#)

GreatLearning

[AWS For Beginners , Docker for Intermediate Level](#)

GreatLearning

[React JS Tutorial](#)

GreatLearning

VOLUNTEERING

[Seminar Organizer,](#) 2022 - 2024

Computer Engineering Seminar Series

[Project Nenathambara](#) 2024

Worked As Python and Arduino Tutor for School students

[Project Arunalla](#) 2022 - 2023

Seminar series organized by engineering students' union for O/L students in Rural areas.



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Mirigama, Sri Lanka



[kasuni-hansachapa](#)

TECHNICAL SKILLS

Programming Languages

Python, C, Java, PHP, JavaScript, ARM assembly, Dart

Frameworks and Libraries

React, Spring, NodeJS, Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, JUnit

Mobile Development

React Native, Flutter

Databases

MongoDB, MySQL

Cloud

AWS EC2, AWS RDs

Other

Git, Verilog HDL, Matlab, Docker

SOFT SKILLS

- Teamwork
- Communication
- Problem Solving
- Time Management
- Project Management
- Adaptability

LANGUAGES

- Sinhala
- English

PROJECTS

Automated Hydroponic System | Group

Nov. 2023- Feb.2024

- An embedded system designed to monitor pH levels, TDS levels, and remaining resources, with data sent to AWS cloud storage. This information is accessible through mobile and web applications, providing users with real-time insights to effectively manage and maintain their hydroponic systems.
- Contributed to create the mobile application, hardware part and documentation.

Technologies : React, Flutter, Mysql, AWS(IoT Core, EC2,RDs), docker, Maven

Engineering Education Unit | Group

Aug. 2023- Nov.2023

- A highly secure web application for the Engineering Education Unit (EEU) at the Faculty of Engineering, University of Peradeniya.
- Our primary goals were to enhance security, improve user-friendliness, and facilitate content management with dynamic editing feature
- Contributed to create the UI of the web application

Technologies : React, java, Mysql, Spring framework

Library Management System | Group

May. 2023- Sep.2023

- A software application automates the operations in managing a library for both staffs and readers
- Contributed to create the web application

Technologies : React, Springboot, Mysql

ML-based Rainfall Prediction System | Group

Nov. 2023- Present

- A predictive model that estimates future rainfall based on historical weather data analysing various meteorological factors such as longitude, latitude,elevation and past rainfall patterns .
- Contributing to the model development and model evaluation

Proposed Technologies : Python, Pandas, Scikit-learn, FastAPI

8-BIT Single Cycle Processor | Group

Aug. 2023

- An ARM architecture-based processor was implemented using the ALU, register file, control unit, data memory, instruction memory, and caches.
- Contributed to build part of the application.

Technologies : Verilog HDL, C, ARM Assembly

Face Detection and Emotion Recognition System

APR. 2024-Present

Individual

- A mini project designed to process a collection of images, detect faces within those images, and recognize the emotions displayed by these faces using a pre-trained emotion recognition model.

Proposed Technologies : Python, OpenCV, TensorFlow, FastAPI

REFERENCES

PROF.ROSHAN RAGEL

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Department Head,

Department of Computer Engineering,

Faculty of Engineering,

University of Peradeniya

DR.ISURU NAWINNE

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