



DHINUSHIKA ABREW

Computer Engineering Undergraduate

CONTACT

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EDUCATION

2021- present

UNIVERSITY OF PERADENIYA

Current GPA : 3.55 / 4.0

- BSc. Eng(Hons) Specializing in
Computer Engineering

2017 - 2019

DE MAZENOD COLLEGE -
KANDANA

- G.C.E. Advanced Level 2019
Physical Science stream with 3A's

2006 - 2016

GOOD SHEPHERD CONVENT -
COLOMBO 13

- G.C.E. Ordinary Level 2016
9A's

PROFILE

I am self-motivated, dedicated, hardworking, friendly, patient and fast learner with the willingness to explore new things in the field of the Computer Engineering industry. I am seeking a position where my skills can utilize and get experiences as a trainee to become a successful professional in the industry.

PROJECTS

3D LED Cube



The project enables users to upload 3D models via a user-friendly web platform, visualize real-time previews on a 16x16x16 LED cube and the mobile application complements the 3D Holo Cube system, empowering users with the ability to control and interact with their 3D models on the LED cube.

[Contribution - Hardware , Mapping code, Project page]

#React.js #MongoDB #Flutter #AWS #Node.js #Python #HTML #CSS

Mobile App Development for Leaf Area Calculation - AgroCam



AgroCam provides a solution to the challenges of expensive and limited leaf area measurement devices by using advanced algorithms and integrating with OpenCV.js. Users can accurately measure leaf area with a single photo. AgroCam also includes features such as leaf recognition, sharing observations, and accessing previous data.

[Contribution - Frontend]

#React Native #Firebase #opencv python

Mobile app Development for Inpatient Management System - InCarePro



This mobile app offers patient registration, efficient electronic health records (EHR) management, and real-time monitoring of vital signs and medical updates. InCarePro centralizes patient information, boosting efficiency and communication in healthcare facilities.

[Contribution - Frontend]

#Android Studio #Java #Firebase

Bookstore Management System



The bookstore efficiently manages inventory, customer details, employee information, and orders. They can swiftly access out-of-stock books, customer orders, supplier data, and employee details in emergencies. Moreover, analyzing sales data informs inventory management and book ordering decisions.

[Contribution - Frontend and Backend related to the user features]

#HTML #CSS #PHP #JavaScript #MySQL

MINI PROJECTS

- **RISC-V 32 BITS PIPELINE PROCESSOR**

A RISC architecture based pipeline processor is implementing with all the hardware units which capable of handling individual instructions.

- **SINGLE CYCLE PROCESSOR**

An ARM architecture based processor was implemented with ALU, register file, control unit, data memory & cache, instruction memory & cache.

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES**

Java, C, Python, PHP, Verilog HDL, ARM Assembly

- **DATABASE SYSTEMS**

Firebase, MySQL, MongoDB

- **MOBILE APP DEVELOPMENT**

Android Studio (java), React Native

- **FRONTEND**

HTML, CSS, JavaScript

- **UX DESIGN**

Adobe XD , Figma

- **3D MODELING**

AutoCAD

- **VERSION CONTROL**

Git

SOFT SKILLS

- **TEAM WORK**

- **TIME MANAGEMENT**

- **PROJECT MANAGEMENT**

- **FAST LEARNER**

- **POSTIVE ATTITUDE**

CERTIFICATIONS

- **Engineering Drawing and 3D Modeling using AutoCAD**

Successfully completed the course.

- **Exploratory Data Analysis for Machine Learning**

Successfully completed the course. #IBM

- **Introduction to Java Programming**

Successfully completed the course. #IBM

- **Programming for Everybody (Getting Started with Python)**

Successfully completed the course.

- **Introduction to SQL**

Successfully completed the course.

- **Cambridge English Entry Level Certificate in ESOL International (Preliminary)**

Successfully completed the course. Level B1

- **Supervised Machine Learning: Regression**

Successfully completed the course. #IBM

COMPETITIONS

- **ACES Hackathon 2023 | Participation**

Under the category of agriculture

- **Pre Coders 2022 | Participation**

(Algorithmic Coding Competition)

- **IEEE Innovation Nation Sri Lanka (INSL)**

Provincial finalist under university category

EXTRA CURRICULAR ACTIVITIES

- **Volunteering in InnovateX'24**

IEEE Student Branch of University of Peradeniya

- **Project Nenathambara**

Contributed by teaching Python and Arduino to the students in the sessions organized.

I hereby certify that the above information are true and correct according to the best of my knowledge.

Dhinushika Abrew

REFERENCES

Prof. Roshan G. Ragel

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Head of the Department,
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