DUSHAN
FERNANDO

Computer Science and Engineering Undergraduate

CONTACT

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in https://www.linkedin.com/in/dushan-fernando-aaaa02291/

🌐 https://github.com/DushanStefan

📍 No ; 53D, Parakum Place, Pahalagama, Gamapaha.

TECHNICAL SKILLS

WEB DEVELOPMENT
- Html
- CSS
- JavaScript
- react
- MySQL
- ReactNative| expo | androidStudio

PROGRAMMING LANGUAGES
- Python
- C++
- C
- Java
- JavaScript
- VHDL
- SQL

SUMMARY

An undergraduate student that is really passionate about pushing themselves to new limits and contributing their full potential. Excellent at managing people, and constantly focused on finishing tasks, no matter how challenging. Just flexible and looking for new challenges and educational possibilities.

EDUCATIONAL BACKGROUND

UNIVERSITY OF MORATUWA   2021-Present(Final Year)

BSc Engineering (Hons) specialized in Computer Science & Engineering
- Expected to graduate in 2025
- Current GPA - 3.4/4.0 (dean's list in 1st semester)
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GAMPAHA BANDARANAYAKE COLLEGE   2016 - 2019

G.C.E Advanced Level examination 2019- Physical Science stream
- 3 'A' passes for Combined Maths , Chemistry and Physics
- Island rank - 421
- District rank - 37
- Z-score - 2.25

G.C.E. O/L (December 2016) - 9As

PROJECTS

SMART HOME SEQUIRITY SYSTEM

computer vision and machine learning | OpenCV | Python | firebase ReactNative | Expo | JavaScript

This is semester 5 embedded system engineering individual project based on machine learning and computer vision to detect and recognize faces and when unauthorized person is detected, alarm ,bulb ,door-lock system is activated and send the images of unauthorized faces to a mobile app and using this app user can see the faces and control alarm and door lock system remotely via internet. Also user can train the model with their videos via this app.

MUSIC PRODUCTION

- FL studio

GRAPHIC DESIGN

- Adobe photoshop
- premier pro
- Canva

LANGUAGES

- English
- Sinhala

EXPERIANCE

- Work as a trainee software engineer at MagicBits (PVT) LTD 6 months.

INTERESTS

- Embedded Programming
- AI | ML | Deep Learning
- Digital Photography
- Music Production
- Photo and video editing

EXTRA CURRICULAR

- Drummer and a member of the Classical Music Society, University of Moratuwa
- presenter in EXMO exhibition of University Of Moratuwa.
- .Made and did a introduction session of embedded Programming for IT teachers in Balapitiya Region organized by University Of Moratuwa.
- A member of the Catholic Student's Society, University of Moratuwa.
- 1st Place in inter school swimming competition.

INPATH

Machine Learning | Python | HTML | CSS | JS | MongoDB

Exam process automating and learning management system which consists of a web app and a mobile app. Additionally, students are recommended a suitable department based on the exam results.

HEART DISEASE PREDICTION

Machine Learning | Classification | Scikit-learn

Predict the likelihood of heart disease in patients based on various medical factors using classification.

COMMAND-LINE EMAIL CLIENT

Java

Development of a Java-based command-line email client with features like recipient management, automated birthday greetings, email sending

SINGLE VENDOR E-COMMERCE PLATFORM

HTML | CSS | java | JavaScript | MySQL

The development of a simple e-commerce platform with user-friendly interfaces for product browsing, adding things to a shopping cart, and completing secure online transactions.

- Contribution: Contributed to front-end development team using React.js

SMART MEDIBOX

C++ | WOKWI | Node Red dashboard | PCB designing

It has five primary capabilities, including setting the time zone, setting three alarms, and turning off all alarms. I programmed it using an ESP32 board. I built this entirely in C++ and used the WOKWI simulator to do it. In order to enhance my implementation, I developed a Node Red dash board that allows me to remotely monitor the medibox's temperature and humidity as well as operate other capabilities.

AGRI IOT PROJECT

C++ | Arduino

Successfully built a prototype project that communicates between a drone and a soil sensor. Using the GSM protocol and ESP32-H2 microcontrollers, this configuration permits data flow between these two devices.

BLUETOOTH CAR PROJECT+CONTROLLING MOBILE APP

C++ | Arduino | React

it is a MagicBit company project .writing firmware to esp32 board to behave as a car and develop a mobile app to control car via bluetooth.

REFERENCE

Dr.Dulani Meedeniya

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Dr.Sulochana Sooriyaarachchi

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MAGICBIT IOT ROBOT PROJECT

Python | flask | openCV | Arduino | React |websockets |webRTC | MQTT |HTML |JavaScript | CSS |MySQL | Azure | SSH |

It is a MagicBit company project .users can control the robots remotely in the company,and also users can see and do tasks with first person view of actual robot environment.

WEB APP TO GET DETAILS ABOUT ANY BREED OF DOG

reactJs | ninjas API | JavaScript

It gives all the details about a breed of dos that we search with a picture.in this i use REACTJS to develop front end and a API to get details of breeds of dogs.

JOB FINDING MOBILE APP

reactNative | JavaScript | css

This app allows users to look up nearby jobs and see their locations, qualifications, and other information.Also use this app to apply for such jobs