



RUCHIRA THARAKA

COMPUTER ENGINEERING UNDERGRADUATE

PERSONAL PROFILE

I'm a versatile, highly motivated individual with a passion for innovation and problem-solving. Have a strong foundation in programming languages and hardware design, complemented by practical experience. Also, a fast learner who is committed to staying updated with emerging technologies and eager to contribute to cutting-edge projects in the technology field.

CONTACT ME

- <https://dev-ruchira-tharaka.pantheonsite.io/>
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- <https://www.linkedin.com/in/ruchira-tharaka-51423b212/>

SKILLS

- Programming Languages (C, Java, Python)
- Algorithm and Data Structures
- Mobile App Dev (Android Studio, Flutter)
- Database Management System (MySQL)
- Frontend Development (html, CSS, js)
- 3D Designing (Autocad, Blender)
- 3D Rendering (Three.js)
- Cloud Computing (AWS)
- Embedded Hardware (Arduino)

EDUCATIONAL HISTORY

Bachelor of Science of Engineering (UG) CGPA 3.809/4.0

University Of Peradeniya

G.C.E. Advanced Level

2018

Ananda College - Colombo

2A, 1B - Physical Science Z score - 1.8414

G.C.E. Ordinary Level

2015

Ananda College - Colombo

9A's - Commerce, Art, Health

WORK EXPERIENCE

Commercial Bank of Ceylon

2019

Worked 9 months as a Banking Trainee.

PROJECT EXPERIENCE

Patient Monitoring System for Ambulances

2023

Web Application, Mobile Application, Embedded Device

A project contains a Web Application, Mobile Application and an Embedded Hardware to monitor health parameters and location of, the patients travelling in Ambulances.

Technologies : Flutter, AWS, Arduino, Fusion 360, MQTT, Python PlatformIO, Flutterdriver, HTML, CSS

Contribution : Cloud Computing(AWS), Embedded Device (Arduino)

Interactive Department App

2022

Web Application

Up to date web-based 3D map for the Department of Computer Engineering building including all labs, staff rooms, server room, lecture rooms etc.

Technologies : JS, HTML, CSS, THREE.JS, JSON, BLENDER

Contribution : Part of the Website

Tutoring Database Management System

2021

Web Application

System that manages all the data including Centers, School Students and University Students who are involved with the tutoring project, Administrators, Sessions etc..

Technologies : PHP, HTML, CSS, MYSQL

Contribution : Part of the Website

Bluetooth Messaging App

2021

Android Application

Android communicating app which is based on Bluetooth technology.

Technologies : JAVA, ANDROID STUDIO, BLUETOOTH, SQLITE, JSON

Contribution : Part of the App (UI)

ACADEMIC INTERESTS

- Web Application Development
- Mobile Application Development
- 3D Rendering
- Software Engineering
- Python Programming
- Embedded Hardware Projects
- Cloud Computing
- Data Structures & Algorithms

EXTRA CURRICULAR ACTIVITIES & INTERESTS

Committee Member of Association of Computer Engineering Students (ACES)

3D modeling and Architectural Designing

Drawing, Sketching and Painting

Cricket and Table Tennis

Travelling

REFERENCES

Prof. Roshan G. Ragel,

Dept. of Computer Engineering
Faculty of Engineering
University of Peradeniya

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mobile: +94773857755

Dr. Mahanama Wickramasinghe,

Dept. of Computer Engineering
Faculty of Engineering
University of Peradeniya

Email:
mahanamaw@eng.pdn.ac.lk

mobile: +94776689798

PROJECT EXPERIENCE

3D Model construction for a target class using XAI 2023

ML Model, 3D Reconstruction Model

ML Project to create a general 3d skeleton for a target object.

Technologies : **SHAP, Point-E**

Smart Cooling System for Machinery room

2023

Iiot Project

A cooling system which is automatically controlled according to the temperature of a particular room.

Technologies : **Arduino, SCADA, MQTT, MySQL**

Single Cycle Processor

2021

Computer Architecture Project

Android communicating app which is based on Bluetooth technology

Technologies : **VERILOG HDL, MIPS ARCHITECTURE**

Meeting Data Visualizer

2021

C Language Program

Represents zoom meeting data graphically using a given parameter number of participants, duration or the number of meetings.

Technologies : **C**

Treadmill Dashboard

2019

Computer Software

Software to a treadmill dashboard.

Technologies : **PYTHON, TKINTER**

COMPETITIONS

Participance | HACKATHON - 2023

2023

organized by ACES - UOP

26th Place | Pre-CODERS associated with Coders V9.0

2022

organized by ACES - UOP

Participance | Month of CodeGeniX - AdaDrad' 21

2021

organized by IEEE Computer Society Student Barch Chapter of SLTC

Participance | Algorithmic Coding Challenge

2021

organized by IEEE Computer Society Student Barch Chapter of SLTC

CERTIFICATIONS

Human Resources Management - National Youth Service Council

Programming for Everybody - University of Michigan (coursera)

Python Data Structures - University of Michigan (coursera)

English Diploma - BritishWay English Academy