KUMUTHU ATHUKORALA

COMPUTER SCIENCE & ENGINEERING UNDERGRADUATE

CONTACT

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TECHNICAL SKILLS

Programming Languages
Python | Java | JavaScript

Web Development
HTML | CSS | Node.js | React | Next.js | SpringBoot | Angular | MUI

DATABASE
MySQL | Weaviate | MongoDB | Elasticsearch

Other
Git | Docker | OOP

INTEREST

- Full Stack Development
- Natural Language Processing

CERTIFICATES

Machine Learning Specialization - 2023
DeepLearning.AI (2 completed)

Ethereum and Solidity - 2022
Udemy

ABOUT ME

I am a responsible and excellent team player with strong analytical skills, driven by a keen eagerness to learn and grow with a team. Currently, I am actively seeking an opportunity as an Associate Software Engineer, aiming to gain knowledge and apply theoretical concepts to real-world scenarios.

EDUCATION

B.Sc. Engineering (Hons) in Computer Science & Engineering
University of Moratuwa | 2020 - present
Current GPA - 3.62
Dean's list in semesters 01 and 06

G.C.E. Ordinary Level & Advanced Level
GM / Rathnavali Balika Vidyalaya | 2010 - 2018
G.C.E. Advanced Level Examination - 2018
Combined Mathematics – A, Physics – B, Chemistry – A
DR - 51 | IR - 647

WORK EXPERIENCE

Trainee Software Engineer - CodeGen International
RnD Team | January 2023 - June 2023
- Developed the document retriever component by myself to improve information retrieval, enhancing the chatbot's question-answering capabilities.
- Integrated the chatbot with Instagram
- Served as a full-stack developer
- Python | SpringBoot | Node.js | Weaviate | Docker

Visiting Instructor - Department of Computer Science and Engineering, University of Moratuwa
July 2023 - Present

Worked as a teaching assistant for the Programming Fundamentals module and Communication Skills module.

PROJECTS

Personalizing Recipes through Ingredient Substitution using LLMs (ongoing)
Final year project focused on enhancing recipe adaptability through ingredient substitution using LLMs.
- Prompt Engineering | Retrieval Augmented Generation
- Llama2 | Mistral | Weaviate

ACHIEVEMENTS

Code Jam to I/O for Women 2021
Country rank- 7th

IEEExtreme 16.0

Australian National Chemistry Quiz 2015

Sri Lankan Junior Astronomy
Olympiad Competition - Bronze

EXTRA CURRICULAR ACTIVITIES

**AIESEC in University of Moratuwa
(2020 - 2022)**
President for Overhaul3.0
Vice President for PyCon Sri Lanka 2022,
ThinkWave 4.0
Nominated for the Best Performing Young Leader
Award 2022

**Rotaract Club of University of
Moratuwa (2021)**
Co-chair of MentHer 2021

Department Coordinator - EXMO'23
CSE Boot Camp organizer

**Rathnavali Balika Vidyalaya,
Gampaha**
Secretary in Science Society (16/17)
Senior and Junior prefect

**One Stage for all Association
(2021 - 2023)**
Sub-editor

Lakviru Radio (2019 - 2020)
Radio presenter

REFERENCES

Dr. Surangika Ranathunga
Senior Lecturer,
Department of Computer Science
and Engineering,
Faculty of Engineering,
University of Moratuwa
surangika@cse.mrt.ac.lk
+94 77 020 2800

Dulanjaya Tennekoon
Technical Team Lead,
CodeGen International Pvt. Ltd.
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EXCLUSIVES - NFT Marketplace

An NFT marketplace for NFTs on the Ethereum blockchain which allows users to mint and sell NFTs at a fixed price or a timed auction.
- Contribution: Front-end and Backend development
- Technologies: Next.js, MySQL, Material-UI, Prisma

Sinhala Metaphor Search Application

A search engine for Metaphors in Sinhala poems
- Technologies: React, Node.js, Express, Elasticsearch

UMISF - Web Application

The official web application for UMISF (University of Moratuwa Inter Shuttlers Festival) is used to manage all the registrations, ongoing match results and umpiring.
- Contribution: Front-end development
- Technologies: React

Human Resource Management System

A web application for an apparel company to manage the details, leave requests, attendance, and report generation of all employees on several criteria.
- Contribution: Front-end and Backend development
- Technologies: HTML, CSS, React, Node.js, MySQL

Vehicle Collision Warning System

A python application that can take a real-time video stream as input and identify the obstacles to warn the driver by predicting collisions.
- Technologies: Python, OpenCV, YOLO

STREAMIX: DASH Compliant Video Streaming System

The project is a dash video streaming system. Android app is used to capture the video and upload it to the centralized server. Anyone connected to the server can watch the uploaded videos with different qualities.
- Contribution: Back-end Development
- Technologies: Java, Node.JS, MongoDB, FFmpeg

COVID Details Handling System

A system where all the hospitals in the country can access the COVID-19 details of any citizen.
- Contribution: Front-end and Backend development
- Technologies: HTML, CSS, PHP, MySQL

Blood Bank Management System

A system for the National Blood Bank to display the availability of blood and blood donation campaigns throughout the country.
- Contribution: Back-end development
- Technologies: React, Node.js, MySQL