



KUMUTHU ATHUKORALA

COMPUTER SCIENCE & ENGINEERING UNDERGRADUATE

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 a 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 | FastAPI

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

July 2023 - November 2023

Worked as a teaching assistant for the Programming Fundamentals module. Tasked with assisting labs and assessment creation.

PROJECTS

Personalizing Recipes through Ingredient Substitution using LLMs (ongoing)

Final year project focused on enhancing recipe adaptability through ingredient substitution using LLMs.

- Prompt Engineering | Natural Language Processing
- Llama | Weaviate | RAG

CONTACT

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💻 github.com/KumuthuA

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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 | ArangoDB | Elasticsearch

Other

Git | Docker | OOP

INTEREST

- Full Stack Development
- Large Language Models
- Machine Learning

CERTIFICATES

Machine Learning Specialization - 2023

DeepLearning.AI (2 completed)

Ethereum and Solidity - 2022

Udemy

ACHIEVEMENTS

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

IEEEExtreme 16.0

Australian National Chemistry Quiz 2015

Sri Lankan Junior Astronomy
Olympiad Competition - Bronze

EXTRA CURRICULAR ACTIVITIES

Department Representative
(2023 - present)

AIESEC in University of Moratuwa
(2020 - 2022)

An active member, team leader and manager.
Organizing Committee President Overhaul3.0

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

Rakviru 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
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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

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

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

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