



# 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 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

## CONTACT

+94 71 625 5080

18/2, Colombo Road, Biyagama

kumuthua@gmail.com

kumuthu-athukorala.vercel.app/

github.com/KumuthuA

kumuthu-athukorala

@kumuthuathukorala

## 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

## 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

---

### 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, Campaha

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.  
dulanjaya@codegen.net  
+94 77 642 2313

## 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