



CONTACT

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TECHNICAL SKILLS

Programming Languages

Python | Java | JavaScript | Dart

Web and Mobile Development

HTML | CSS | Node.js | React | Next.js | SpringBoot | Angular | Flutter

DATABASE

MySQL | Weaviate | Elasticsearch | MongoDB

Other

Git | Docker | OOP

INTERESTS

- Full Stack Development
- Large Language Models
- Retrieval Augmented Generation

KUMUTHU ATHUKORALA

COMPUTER SCIENCE & ENGINEERING UNDERGRADUATE

ABOUT ME

As an enthusiastic individual with strong analytical and interpersonal skills, I excel as a team worker and can collaborate effectively across all levels. Specializing in web application development and with an interest in large language models(LLMs), I'm eager to apply my theoretical knowledge in practice as a software engineer. Known for attention to detail and a results-driven ethos, I'm passionate about continuous learning and professional growth.

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

RATHNAVALI BALIKA VIDYALAYA, GAMPAHA

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 an information retrieval component to improve the question-answering capabilities of a chatbot for domain-specific information.
- Integrated the chatbot with the Instagram platform.

Python | SpringBoot | Node.js | Weaviate | RAG

VISITING INSTRUCTOR - UNIVERSITY OF MORATUWA DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,

July 2023 - Present

Assisting Programming Fundamentals, Communication Skills modules.

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 (RAG)
Llama2 | Mistral | Mixtral | Gemma | Weaviate | QLoRA

ACHIEVEMENTS

- 2021 Google Code Jam to I/O for Women
Country rank - 7th
- 2022 IEEEExtreme 16.0
- 2015 Australian National Chemistry Quiz
Merit
- 2013 Junior National Astronomy
Olympiad Competition
Bronze

EXTRA CURRICULAR ACTIVITIES

AIESEC in University of Moratuwa (2020 - 2022)

- President for Overhaul3.0
- Vice President - PyCon Sri Lanka 2022,
- Vice President - ThinkWave 4.0
- Best performing oGT Member of the Year 2022
- Nominated for the Best Performing Young
Leader Award 2022

Rotaract Club of University of Moratuwa (2021)

- Co-chair of MentHer 2021
- Gold Award for the most outstanding
Professional Development Initiative of
the year in Rotaract District 3220.

Department Coordinator - EXMO'23

- CSE Boot Camp organizer

Rathnavali Balika Vidyalaya, Gampaha

- Secretary in Science Society (16/17)
- Secretary of Junior Science Society (2015)
- Senior prefect

Lakviru Radio (2019 - 2020)

- Radio presenter

REFERENCES

Dr. Surangika Ranathunga

Senior Lecturer,
Department of Computer Science
and 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.

- Next.js | MySQL | Material-UI | Prisma

SINHALA METAPHOR SEARCH APPLICATION

A search engine for Metaphors in Sinhala poems

- 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.

- React | MongoDB

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.

- 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.

- Python | OpenCV | YOLO

STREAMIX: DASH COMPLIANT VIDEO STREAMING SYSTEM

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.

- 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.

- 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.

- React | Node.js | MySQL

CERTIFICATES

- The Complete Flutter Development Bootcamp with Dart by Udemy
- Ethereum and Solidity: The Complete Developer's Guide by Udemy
- Python Data Structures by University of Michigan
- Introduction to Cybersecurity by Cisco