



SACHINI DISSANAYAKA

PERSONAL PROFILE

I'm a passionate programmer and a problem solver interested in building creative things and seeing people enjoy them. I'm interested in machine learning, full-stack development, and mobile development. Currently, as a fresh graduate, I'm looking for a great team to say hello to my future as a software engineer.

EDUCATION

BSc Eng Hons (UG) 2018 - 2022

Department of Computer Science & Engineering University of Moratuwa

Current GPA 3.53

G.C.E Advanced Level Examination 2008 - 2016

Pu/Anamaduwa Central College

3A's | District Rank - 01 | Z-Score - 2.3770

HUAWEI Student Developers (HSD) 2021

HMS Foundation Certification

Diploma in Information Technology with E-Commerce 2017

ESOFT Metro Campus

Diploma in Information Technology 2017

Universal Computer & Accounting Technologies

EXPERIENCE

Software Engineering Intern - Emojot (Pvt) Ltd

Oct 2020 - May 2021 (8 months)

Emojot is a global pioneer in real-time, emotion-based, intelligent experience management.

- Have implemented a Multi-Factor authentication system for Emojot Dashboard and Customer Experience Management Portal.
- Have improved user operation management and restricted user actions based on authorization levels

CERTIFICATIONS

Neural Networks and Deep Learning Specialization Course Completion

Certificate - Deeplearning.ai

Offered by Coursera

MATLAB Course Completion Certificate

Offered by MATLAB Onramp

AWS Fundamental: Google Cloud Native Course Completion Certificate

Offered by Coursera

AWS Machine Learning Fundamental Course

Offered by AWS Academy (Reading)

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TECHNICAL EXPOSURE

Programming Languages

Java, Python, Javascript, Dart, HTML, PHP

Full-stack Development

Angular, React.js, Node.js, Flask, Spring Boot, MongoDB, MySQL

Mobile Development

Java, Android SDK, Flutter

Cloud Technologies

Firebase, Google Cloud Platform

Machine Learning

Jupyter notebook, NumPy, Pandas, Scikit-learn, PyTorch, BeautifulSoup
Tensorflow, Matplotlib

Other

Git, Bitbucket, Jira, Postman. Apache Tomcat, Maven, Elasticsearch

ACHIEVEMENTS

IEEE Xtreme 2021

Country Rank - 18

MoraXtreme 6.0

Rank - 15

IEEE YESIST12: Hackathon

Ranked 4th in the Preliminary Selection Competition Sri Lanka 2019 and got selected for the finals in Stamford University in Thailand

HomeAlone: Virtual Mini-Hackathon

Island Rank - 15

HackDown2020 - Coding Competition

Island Rank - 19

IEEEExtreme 2019

Country Rank - 57

MoraXtreme 4.0

Rank - 50

EXTRA-CURRICULAR ACTIVITIES

Batch Representative

Department of Computer Science & Engineering, University of Moratuwa
2021 - Present

IT Panelist

UoM Leo Club, University of Moratuwa
2020 - 2021

Article Writer

MoraSpirit, University of Moratuwa
2019 - 2021

Volunteer

UoM Leo Club, University of Moratuwa
Chairman - "Mini-Miracles project 2019"
2019 - 2021

School Senior Prefect

Pu/Anamaduwa Central College
2014 - 2016

School Junior Prefect

Pu/Anamaduwa Central College
2010- 2013

REFEREES

Dr. Uthayasanker Thayasiam
PhD (U. Georgia), BSc Eng. (Hons) (Moratuwa)
Senior Lecturer
Department of Computer Science and Engineering
University of Moratuwa
Mail - rtuthaya@cse.mrt.ac.lk

Mr. Andun Liyanagunawardana
Bsc Eng Hons(Moratuwa), AMIE(SL), MCS(SL)
General Secretary - CS&ES
Co-Founder and Engineering Director
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(+94) 772019246

PROJECTS

Hybrid-Attention End-to-End Speaker Diarization

Final Year Project (Ongoing)

(Deep Learning, PyTorch, Python, GCP)

This was based on the implementation of the state-of-the-art model for 2 speaker overlapping speech diarization by reducing the Diarization Error Rate (DER). Our proposed model is to modify the current state-of-the-art model by adding three more additional layers, which are LDSA, Convolutional Subsampling, and SpecAugment layers.

Search Engine Politicians - Sinhala [Source Code](#)

(Python, Flask, React.js, BeautifulSoup, Elasticsearch, Kibana)

This is an information retrieval system that can be used to query and get any type of data about Sinhala Politicians. The dataset of the project was scrapped using BeautifulSoup and the project was implemented using Python, React.js, and supported by a python-Flask powered backend. I have used Elasticsearch for indexing and querying.

Distributed Chat System [Source Code](#)

(Java)

This group project is about creating a distributed chat application. The system consists of two main distributed components: chat servers and chat clients, which can run on different hosts. I have implemented all the functions for one server (create, join, delete, quit, etc.) and implemented the Heartbeat algorithm using gossiping and consensus for failure detection.

Kritify [Source Code](#)

(Android Studio, Java, Spring Boot)

This is a social media mobile app that hosts all your reviews about business entities in one place. This is an Android app integrated with HMS core. I have implemented the functionalities for Huawei Account Kit, post creation, and point reviewing for each visited place.

TravelME [Source Code](#)

(Flutter, Dart)

An "Online tour planning platform" that can be used for planning a tour and the mobile application frontend was implemented by me using Flutter.

SmartShopping | Supply Chain Management Platform [Source Code](#)

(Symphony, CSS, PHP, JavaScript)

Designed, implemented, and demonstrated a "Smart Shopping" web-based application using Symphony framework and administration part of the project was implemented by me.

PUBLICATIONS

Implementation of Two-Factor Authentication with TOTP using Speakeasy

[Article Link](#)

Integration of Huawei Account Kit (In Kritify Application)

[Article Link](#)