



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.

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

EDUCATION

BSc Eng Hons (UG)

Department of Computer Science & Engineering
University of Moratuwa

2018 - 2022

GPA 3.53

G.C.E Advanced Level Examination

Pu/Anamaduwa Central College

2016

3A's (Combined Maths, Physics, Chemistry)

District Rank - 01

Z-score - 2.3770

HUAWEI Student Developers (HSD)

HMS Foundation Certification

2021

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📖 sachini-dissanayaka.medium.com

TECHNICAL EXPOSURE

Data Structures and Algorithms

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

IEEE Xtreme 2019

Country Rank - 57

MoraXtreme 4.0

Rank - 50

CERTIFICATIONS

Neural Networks and Deep Learning Specialization Course Completion Certificate - DeepLearning.ai
Offered by Coursera

MATLAB Course Completion Certificate

Offered by MATLAB Onramp

Flutter Course Completion Certificate

Offered by Udemy

AWS Fundamental: Google Cloud Native Course Completion Certificate

Offered by Coursera

AWS Machine Learning Fundamental Course

Offered by AWS Academy (Reading)

Diploma in Information Technology with E-Commerce (DiTEC)

ESOFT Metro Campus

2017

Diploma in Information Technology

Universal Computer & Accounting Technologies

2017

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

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

[Source Code](#)

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

(Java)

[Source Code](#)

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 (createroom, joinroom, etc.) and implemented the Heartbeat algorithm using gossiping and consensus for failure detection.

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

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

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DrivenData | Pump-It-Up

(Python, Jupyter Notebook)

[Source Code](#)

Python solution for Pump-It-Up, DrivenData machine learning competition. I have used various kinds of encoding, normalization techniques and learned pre-processing and post-processing techniques as well. I was within 4% of the global participant results in this competition. The result was great because it had been 0.8234, compared with the first place 0.8294.

Kritify

(Android Studio, Java, Spring Boot)

[Source Code](#)

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

(Flutter, Dart)

[Source Code](#)

implemented 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

(Symphony, CSS, PHP, JavaScript)

[Source Code](#)

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](#)