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- Sachini-Dissanayaka.github.io
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- github.com/Sachini-Dissanayaka

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

SACHINI DISSANAYAKA

PERSONAL PROFILE

I'm a passionate programmer and a problem solver. I like building things and seeing people enjoy them. Currently, as a fresh graduate, I'm looking for an awesome team to say hello to my future as a software engineer.

EXPERIENCE

Software Engineer (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

HMS Foundation Certification
HUAWEI Training
2021

G.C.E Advanced Level Examination
Pu/Anamaduwa Central College
2016

3A's (Combined Maths, Physics, Chemistry)
District Rank - 01
Z-score - 2.3770

ACHIEVEMENTS

IEEE Xtreme 2021
Country Rank - 18

MoraXtreme 6.0
Rank - 15

IEEE YESIST12: Hackathon
4th Place

HomeAlone: Virtual Mini-Hackothon
Island Rank - 15

HackDown2020 - Coding Competition
Island Rank - 19

IEEEXtreme 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, Neural Network, Python, GCP)

This was based on 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)

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 quering.

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

DrivenData | Pump-It-Up
(Python, Jupyter Notebook)

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.

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
2019 - 2021

School Senior Prefect
Pu/Anamaduwa Central College
2014 - 2016

School Junior Prefect
Pu/Anamaduwa Central College
2010- 2013

REFEREES

Mr. Sashika Nawarathne
Software Engineer
Thirdfort (Pvt) Ltd Colombo, LK

Mail:

Kritify
(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
(Flutter, Dart)

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)

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

PUBLICATIONS

Implementation of Two-Factor Authentication with TOTP using Speakeasy
Article Link - https://sachini-dissanayaka.medium.com/implementation-of-two-factor-authentication-with-totp-using-speakeasy-c92ce23e1aab

Integration of Huawei Account Kit (In Kritify Application)
Article Link - https://sachini-dissanayaka.medium.com/integration-of-huawei-account-kit-in-kritify-application-313b02c3afcc