PERSONAL DETAILS

📍 Reading, Berkshire, UK

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TECHNICAL EXPOSURE

Programming Languages
Java, Python, Javascript, Dart

Full-stack Development
Angular, React.js, Node.js, Flask, SpringBoot, 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

HackDown 2020 - Coding Competition
Island Rank - 19

IEEEXtreme 2019
Country Rank - 57

SACHINI DISSANAYAKA

SUMMARY

I'm a passionate programmer who has around 2 years of experience in developing software. My interests lie in NLP, Competitive Programming, System Design, Software Security, and Data Science.
Currently, I'm looking for a great team to find my next adventure as a Software Engineer.

EXPERIENCE

Software Engineer - WSO2 Inc — May 2022 - Jan 2023

Java, Maven

WSO2 is an open-source technology provider in the API Management domain
- Responsible for migrating the Twilio SDK version from 3.3.13 to 8.36.0 in the Twilio ESB Connector.
- Worked on integration tests, and helped to handle and improve API Manager regression tests.
- Provided support for the API manager as a member of the engineering support team.

Software Engineer - Emojot (Pvt) Ltd - (Internship) — Oct 2020 - May 2021

JavaScript, React, Node.js, MongoDB

Emojot is a global pioneer in real-time emotion-based intelligent experience management
- Contributed to the system security enhancement by implementing a multi-factor authentication system for Emojot Dashboard and Customer Experience Management Portal (CX Portal) which were the main client-facing applications.
- Improved the existing user operations and setup user authorization levels to monitor user engagement with the platform.

EDUCATION

BSc Engineering (Honours) — 2018 - 2022
Specialised in Computer Science & Engineering
University of Moratuwa, Sri Lanka
Overall GPA 3.62 (Second class upper division)

G.C.E Advanced Level Examination — 2008 - 2016
ACC, Sri Lanka
Distinction passes with 3A's for all 3 subjects
Combined Mathematics, Physics, and Chemistry
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

EXTRA-CURRICULAR ACTIVITIES

Batch Representative
Department of Computer Science & Engineering, University of Moratuwa
2021 - 2022

IT Panelist and Executive Member
UoM Leo Club, University of Moratuwa
2020 - 2021

Article Writer
MoraSpirit, University of Moratuwa
2019 - 2021

Volunteer and Organiser
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

ARTICLES

Implementation of Two-Factor Authentication with TOTP using Speakeasy
Article Link

Integration of Huawei Account Kit (In Kritify Application)
Article Link

PROJECTS & RESEARCHES

Invity   Website
(React.js, Node.js, Firebase)

This is an automated bulk invitation generator. Users can upload an image file of an invitation, and then use the in-built tools to customize the invitation as they prefer. The magic of the platform is that it lets users to generate a set of invitations with multiple addressees just by a single click.

Hybrid-Attention End-to-End Speaker Diarization
University Final Year Research
(Deep Learning, PyTorch, Python, GCP)

This is based on the implementation of the state-of-the-art model for 2 speaker overlapping speech diarization by reducing the diarization Error Rate (DER). We proposed three more models by improving the current state-of-the-art Self Attention model, which are the combinations of the Local Dense Synthesizer-Attention layer with Self Attention, Relative Attention, and External Attention 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, Gradle)

This is a distributed chat application that supports multiple chat rooms. The system consists of two main distributed components: chat servers and chat clients. They can independently run on different hosts and elect a leader to handle operations using the Leader election algorithm. I implemented all the server API functions to accept CRUD operations and implemented the Heartbeat algorithm using gossiping and consensus for failure detection.

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

This is a Python solution for the Pump-It-Up, DrivenData machine learning competition. I was able to place within the top 4% of the global participant results in this competition.

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 a point-based reviewing system for each visited place.

TravelME   Source Code
(Flutter, Dart)

This is an "Online tour planning platform" that can be used for planning a tour and the mobile application frontend was implemented from scratch using Flutter.