

SACHINI DISSANAYAKA

SOFTWARE ENGINEER

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EDUCATION

BSc Engineering (Hons) Sp. in Computer Science and Engineering

University of Moratuwa - Sri Lanka

2018 - 2022

- Graduated with a Second class upper division (Overall GPA - 3.62 out of 4.20)
- Selected in to the Dean's List on 3 semesters
- Served as an executive committee member and a lead organiser in the UoM Leo Club, UoM IEEE, and MoraSpirit Club
- Selected as the batch representative in the university final year
- Secured multiple hackathon wins during the undergraduate period

GCE Advanced Level Examination

Anamaduwa Central College - Sri Lanka

2008 - 2016

- Scored distinction passes with 3A's for the all 3 subjects (Combined Mathematics, Physics and Chemistry). Ranked the 1st in the district with a Z-score of 2.3770
- Served in the Senior and Junior Prefect boards from 2010 to 2016

ACHIEVEMENTS

IEEE Xtreme

- Ranked 18th and 57th in the country respectively in the years of 2021 and 2019 in the IEEE Xtreme competitive programming competition

IEEE YESIST 12

- Ranked 4th in the Preliminary Selection Competition within the country in 2019 and got selected for the finals in Stamford University in Thailand

HackDown

- Selected to the finalists by being the 19th of the country in HackDown coding competition in 2020

PUBLICATIONS

- Two-Factor Authentication with TOTP using Speakeasy
[Article Link](#)
- Integration of Huawei Account Kit
[Article Link](#)

EXTRA-CURRICULAR

Leo Club, University of Moratuwa

- Served as the chairman of "Mini-Miracles" project in the year 2019
- Served as a member of the IT panel from 2020 to 2021

MoraSpirit, University of Moratuwa

- Served as a volunteer article writer the years from 2019 to 2021

PROFILE

I'm a passionate programmer who has around 2 years of experience in developing software. My interests lies with System Design, Software Security, NLP, Competitive Programming, and Data Science. I have worked with **Java, Python, React, Node.js, PostgreSQL, MongoDB, Redis**, and **GCP**. Currently, I'm looking for a great team to find my next adventure as a Software Engineer.

EXPERIENCE

Software Engineer

WSO2 Inc - *Java, Maven*

May 2022 - Jan 2023

- WSO2 is an open source technology provider in the API Management domain
- I worked on the version migration of the Twilio SDK from 3.3.13 to 8.36.0 in Twilio ESB Connector. This was an urgent customer end request which I completed within minimum time
- I contributed to the integration test management, APIM support and APIM regression test handling and improvement

Software Engineer - Intern

Emojot (Pvt) Ltd - *React, Node.js, MongoDB*

Oct 2020 - May 2021

- 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)
- CX Portal is the main client-facing application of the Emojot platform and the authentication improvements were critical in securing user accounts
- Improved the user operations management and setup user authorisation levels to monitor user engagement

PROJECTS & RESEARCHES

Research - Hybrid-Attention End-to-End Speaker Diarization Model

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)
- We proposed three more models by improving the current state-of-the-art Self Attention model, which are combinations of Local Dense Synthesizer-Attention layer with Self Attention, Relative Attention and External Attention layers

Simplified Search Engine - Sinhala Language

[Source Code](#)

Python, Flask, React.js, BeautifulSoup, Elasticsearch, Kibana, Firebase

- 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

Distributed Chat System

[Source Code](#)

Java, Maven, JUnit

- The chat system consists of two main parties namely the clients and servers
- The system supports multiple servers at a moment, and leader election algorithm was used to automatically self-assign a particular server instance as the leader
- Heartbeat algorithm using gossiping and consensus was used for failure detection across the system
- Clients has the ability connect across different servers and manage their own communication sessions similar to chat rooms

Kritify

[Source Code](#)

Java, Android Studio, SpringBoot

- This a social media mobile app that hosts reviews about business entities in one place.
- The android app was developed by integrating with HMS core and Huawei Account Kit and Huawei Map Kit