Sachini Dissanayaka

Rugby, Warwickshire, UK · (+44) 7935099111 · sachinidissanayaka269@gmail.com

in/sachini-dissanayaka · github/sachini-dissanayaka · medium/sachini-dissanayaka

SUMMARY

Recent UK resident seeking a full-time software engineer position. Possesses the right to work in the UK without requiring visa sponsorship. Achieved **district 1st** in the 2016 GCE A/L examination in the Physical Science stream. Graduated with a **BSc Engineering (Honours) in Computer Science and Engineering**, from the University of Moratuwa, the top engineering university in Sri Lanka with a GPA of **3.62 (Second Class Upper Division)**. Recognized in the **Dean's List** during the university final year. Experienced in software engineering for **2 years,** proficient in **React.js**, **Node.js**, **Next**, **Java**, **MongoDB**, **PostgreSQL**, **GCP**, and **Docker**. Publisher of the projects Invity and SelfUp Chrome Extension.

PROFESSIONAL EXPERIENCE

March 2023
Present

Software Engineer - HighFlyer Global

🛠 *React.js, Frappe, Python*

HighFlyer is a software engineering startup that offers a comprehensive range of services for organisations.

- I played a key role in developing an analytics portal using React.js and Recharts, which was the company's first international project. The portal empowers users to explore data effortlessly with a variety of chart options.
- The portal was developed with user-centric features like drag and drop, full-screen view, clipboard copying, and downloading the full portal dashboard as a PDF.
- Currently, collaborating with the team on building a robust ERP system using the Frappe Framework which is planned to be the primary product of the company. In parallel I'm working on a mobile/tablet-supported React application that can be used to access the ERP system remotely.

July 2023
October 2023

Software Engineer - Natter Life

🛠 *React.js, Next.js, Docker, Strapi, Postgres, AWS, Figma*

Natter is a social media platform for men's mental health and well-being.

- I was the lead developer in making the main CMS app using Strapi and Postgres, turning it into our main communication hub.
- Even though the company was just starting out, I built the app from the ground up and quickly adjusted it to suit the company's needs.
- Extended accessibility with a user-friendly frontend web app using Next.js, ensuring seamless integration with CMS data.
- Optimized media library operations through AWS S3, reducing data retrieval times.
- Actively contributed to design and development iterations, enhancing user interfaces and experience flows in Figma.
- Excited to share that I'm writing a Medium article series about Strapi - View

May 2022
January 2023

Software Engineer - WSO2 Inc

🛠 *Java, Maven*

WSO2 is an open-source technology provider in the API Management domain.

- Strengthened the reliability of API Management components by introducing integration tests, which resulted in a 5% increase in test coverage.

- Upgraded Twilio SDK version, moving from 3.3.13 to 8.36.0 ensuring a seamless transition and reducing potential compatibility issues.
- Implemented comprehensive server restart tests for APIM versions 4.0.0, 4.1.0, and 4.2.0.

May 2021
May 2022
Completed the University final year

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

🛠 *Javascript, Node.js, MongoDB*

Emojot is a global pioneer in real-time emotion-based intelligent experience management
- Implemented a multi-factor authentication system for Emojot Dashboard and CX Portal, which is currently in use by over 1000+ users.
- The new authentication system ensured a secure client-facing environment and resulted in a 20% reduction in unauthorised access attempts.
- Have improved user operation management and restricted user actions based on authorisation levels
- Wrote a medium article about MFA to share knowledge with the community - View

EDUCATION

2024
2026
MSc in Computer Science with Artificial Intelligence

University of York, United Kingdom

2018
2022
BSc Engineering (Honours) Specialised in Computer Science and Engineering

University of Moratuwa, Sri Lanka
- Graduated with an overall GPA of 3.62 (Second Class Upper Division).
- Dean's list for academic performance in the university final year, 2021.
- Batch representative of the Department of Computer Science & Engineering.
- Ranked 18th in the country in the IEEE Xtreme 2021 international competitive coding competition.
- Ranked 4th in the country in the IEEE YESIST12 competition.
- Volunteered and served as an executive member of multiple clubs and associations.

2014
2016
GCE Advanced Level Examination

Anamaduwa Central College, Sri Lanka
- Distinction passes with 3A's for all 3 subjects including Combined Mathematics, Physics, and Chemistry.
- Ranked 1st in the district in the GCE A/L examination with a Z-Score of 2.3770.
- Served twice in Junior and Senior Prefect boards.

PROJECTS & RESEARCH EXPERIENCE

SelfUp - Visit

🛠 *Javascript*

SelfUp is a Chromium based extension that I developed entirely from scratch using vanilla JavaScript. It delivers daily motivational quotes and offers a variety of royalty-free music tracks - such as concentration, meditation, and cheerful tunes - for users to listen to while working. This simple extension eliminates the need to search through streaming sites for music, by reducing distractions while on focus. This project enriched my skills in end-to-end extension development.

Invity - Visit

🛠 *React.js, Node.js, Firebase*

Invity is an automated bulk invitation generator. I started this as a side project and developed the completed platform in less than a month. Through this project, I learned to create a user-friendly platform where people can easily upload an invitation image, personalise it using built-in tools, and, here's the cool part, generate a bunch of customised invitations with just one click. It was an exciting journey, and I gained valuable skills in simplifying processes and making tasks more efficient. I believe this project showcases my ability to create practical solutions that bring real value to users.

Hybrid-Attention End-to-End Speaker Diarization

🛠 *Deep Learning, PyTorch, Python, GCP*

The goal of this research was to enhance the accuracy of recognising two speakers talking at the same time. We successfully implemented a cutting-edge model that significantly reduced the Diarization Error Rate (DER). By combining the Local Dense Synthesizer Attention layer with Self Attention, Relative Attention, and External Attention layers, I not only expanded on the existing state-of-the-art model but also paved the way for more effective solutions in handling overlapping speech. This was a nice experience for understanding advanced models and adding value to complex problem-solving scenarios.

Kritify - Source code

🛠 *Android Studio, Java, Kotlin, SpringBoot*

This is a social media mobile app that hosts all user reviews about business entities in one place. The app was developed by integrating with HMS core, making stateless user management. Plus, I added the power to create posts and a point system for reviewing places, so user's opinions really count. Through this project, I gained experience in mobile app development.

Moreover, I shared my experience with the Huawei Account Kit via Medium - View

ES powered Search Engine - Source code

🛠 *Python, Flask, React.js, BeautifulSoup, Elasticsearch, Kibana*

This project's focus was creating an indexed search engine. I collected the data using BeautifulSoup, and then put it all together using Python and React.js, with a powerful Python-Flask backend. Using Elasticsearch I was able to search and organise the information and query back with super fast speed.

Distributed Chat System - Source code

🛠 *Java, Gradle*

This project was focused on developing a chat platform 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 functions to accept REST API operations and implemented the Heartbeat algorithm using gossiping and consensus for failure detection.

REFERENCES

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
Mail - andun@emojot.com