DASITH SAMARASINGHE

UNDERGRADUATE

A hard working individual who loves computer science engineering. Not believes in miracles rather than hard working. Full of team spirit and willingness to learn and grow with a supportive team. Seeking an opportunity to gain more experience to become a qualified professional in the industry.

+94712421105

dasith.19@cse.mrt.ac.lk

https://www.linkedin.com/in/dasith-samarasinghe/

https://github.com/Davids-98

20/9 , 'Piyasewane', Wekunagoda lane, Bope, Galle.

https://medium.com/@dasithks

https://portfolio-dasith-sa.vercel.app/

Technical Skills

Programming Languages
- Python
- Java
- Javascript
- C++ (beginner)

Database Management Systems
- MySQL
- MongoDB

Development
- HTML
- CSS
- ReactJS
- NodeJS
- Bootstrap
- Material UI

Version Control
- Git, Github

OAuth, Machine Learning

Concepts
- Object Oriented Programming
- Concurrent Programming

EDUCATION

BSc. Engineering
Department of Computer Science and Engineering
University of Moratuwa
11/2020 - Present
CGPA - 3.745 out of 4.2
Dean's list in semester one, two and six

Richmond College Galle
2004 - 2018

- Got 2 'A' passes for Combined Maths, Chemistry and one 'B' pass for Physics in A/Ls. District rank 69, Island rank 659 with Z-score 1.9426.
- 'Got 9 'A' passes in O/L including Information Technology, Western Music and Geography

WORK EXPERIENCE

Software Engineering Intern
WSO2 Lanka (Pvt) Ltd
01/2023 - 06/2023
- Work on identifying and improving gaps in the token issuing flow in the WSO2 identity server.
- Focused on Identity access and management (IAM) pronciples, Database concepts, Oauth2 protocol, OIDC and Java.

Teaching Assistant - Database Systems
Department of Computer Science and Engineering
University of Moratuwa
08/2023 - 12/2023

PROJECTS

Brain Tumour Segmentation Using Self-supervised Learning
Final year research project | August 2023 - Present

- Accurate brain tumour segmentation is a very challanging task with limited labelled data.
- We proposed a self supervised brain tumour segmentation model with explainability to make sure proper interpretation of the model's decisions in the healthcare domain.
- Our approach uses a 3D-Unet architecture with an encorder pre-trained with self-supervised learning and two decorders for better and smoother segmentation
- Technologies - Python with Keras and tensorflow

Flower Exchange Application
November 2023 - December 2023

- This is a simple flower exchange application which is a system that supports basic trading. written in C++.
- Every order is replied with an Execution Report by the Exchange Application indicating the status of the order. Orders sometimes could be rejected due to quantity limitations, invalid flower type, etc.

HeXmint - NFT Marketplace
August 2022 - December 2022

- This application is an NFT marketplace that mainly consists of a web app and a progressive web app(PWA).
- HexMint marketplace is designed to allow users to mint, transfer, and investigate the NFT collection made by various users, and for the purchasers to more reliably purchase or place bids on NFTs.
- Technologies using : React js, Node js, Mongodb, express js, Bootstrap, Solidity, Pinata, PWA, Alchemy, Hardhat, Ethereum Blockchain
- I'm contributing to develop the full stack

Airline Reservation System
March 2022 - June 2022

- Users of this system can book flight bookings. The administrator can schedule flights, add airplanes, add airports and get various reports from the system such as revenue and booking information.
- Advanced SQL, normalization used in database and the technologies used : NodeJS, MySQL, EJS, Bootstrap
- I contributed as a full stack developer

Covid-19 Relief Management System
Aug 2021 - Jan 2022

- A platform for those who like donating and for those in need of financial and medical assistance during the COVID-19 epidemic.
- Technologies: - PHP, MySQL, Bootstrap.
- I contributed mostly to the front end and some functionalities in the backend.

Machine Automation System for Beverage Company(Demo Web Application)
April 2022 - July 2022

- Developed a web demonstration application for automating the machining process of a beverage company.
- Technologies: - React, Spring boot, MySQL.
- I contributed to front end.

Student Request Management System
February 2021 - April 2022

- A web application to maintain students' requests for an learning management system.
- Technologies : - PHP, MySQL, Bootstrap

ARCHIEVMENTS AND CERTIFICATES

- **HTML, CSS, and Javascript for Web Developers**
  October 2021 (Coursera) - Credential ID CTPD5BQQYE6H

- **C for Everyone: Programming Fundamentals**
  November 2021 (Coursera) - Credential ID W2BR8458N4XL

- **Python (Basic)**
  October 2022 (Hackerank) - Credential ID 50448af2b607

- **React (Basic)**
  October 2022 (Hackerrank) - Credential ID 4FBBF9A0F8F9

- **SQL (Basic)**
  May 2022 (Hackerrank) - Credential ID 6CF13882B9C3

- **University Colours Holder - SLUG Tennis Champions 2023**

- **Moraspirit Initiative - Best pillar member of the year 2021**

- **Member of U-13 all island school cricket champions team(2010)**

PUBLICATIONS

- **Introduction to NOSQL**

- **What the heck is BASE properties in DBMS**

- **What is OAuth2? : Introduction**

Reference

Prof. Dulani Meedeniya
Department of Computer Science and Engineering, Faculty of Engineering, University of Moratuwa, Sri Lanka
Phone: +94713935801
Email : dulanim@cse.mrt.ac.lk

Dr. Sapumal Ahangama
Senior Lecturer, Department of Computer Science and EngineeringUniversity of Moratuwa, Sri Lanka
Email : sapumal@cse.mrt.ac.lk

Farasath Ahamed
Senior Software Engineer at Zalando SE
My internship supervisor
Phone: +94777603866
Email : mefarazath@gmail.com
Profile : linkedin.com/in/farasath