Dalana Dharmathilake

Computer Science Undergraduate | Software Engineer

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I'm a passionate software engineer currently pursuing my undergraduate degree. With a unique combination of technical skills and a passion for problem-solving, I'm dedicated to taking on new challenges and continually expanding my expertise in software development

Experience

Software Engineer | The AI Team Pvt. Ltd.
Dec 2021 – Present | Part Time | Colombo, Sri Lanka

- Contributed to the fork of the open source pdf generation library ReactPdf and to the type racing platform Razor

- Write modern, performant, maintainable code for a diverse array of client and internal projects utilizing Angular, React, NodeJS, Flask & various other technologies

- Mentored and guided an intern through completing a project, overseeing its planning, execution, and completion.

- Collaborated on the enhancement of a SaaS product for a client, optimizing its performance and efficiency through implementing web workers and algorithmic improvements.

Research Intern | UCSC - Cognitive Science & Time Series Lab
Nov 2022 – May 2023 | Full Time | University of Colombo School of Computing, Sri Lanka

- Researched on time series modelling and anomaly detection domain

- Improved my academic reading, writing and analytical skills through literature reviews and workshops.

- Worked with various machine learning and deep learning tools and frameworks including TensorFlow, scikit-learn, pandas, numpy and matplotlib

Software Developer - Intern | Nawaloka Hospitals PLC
April 2019 – March 2020 | Full Time | Colombo 2, Sri Lanka

- Developed and deployed a PWA using Angular, Node.js, and MongoDB for the patient triage process, facilitating the daily assessment of ~150 patients.

- Worked on the modernization of legacy Hospital Information System which is built with JavaEE, Oracle DB.

- Automated transfer of employee time sheets from the biometric devices to the HRMS. Which eliminated conflicts and reduced the synchronization time from ~4 hours to 5 minutes.

- Provided support in network/server deployments and other sys. admin tasks

Education

B.Sc. (Hons) in Computer Science
University of Colombo
School of Computing
Mar 2020 - Apr 2024 | Colombo
Cum. GPA: 3.82 / 4.0

Post Graduate Dip. in IT
British Computer Society
Nov 2020 | Colombo
iHEQ, Computing

Skills

Programming

Experienced:
Typescript • JavaScript
Python • SQL • SASS

Familiar:
Java • Shell • C/C++
PHP • GoLang

Libraries & Frameworks

Experienced:
ReactJS • Angular • NestJS •
NextJS • ExpressJS

Familiar:
Spring Boot • Hibernate •
Flask • React Native •
ThreeJS • OpenCV • VueJs •
TensorFlow •

Tools & Platforms

Git • Linux • Docker • GCP
Electron • Firebase

PROJECTS

Heart Murmur Detection in PGCs | TENSERFLOW, LIBROSA, DEEP LEARINING
2023 (Ongoing) - CS Final Year Research

- Researching reconstruction-based approaches for detecting heart murmurs using hybrid deep learning models

Lumen | NODEJS, REACT, POSTGRESQL, ELECTRON, AZURE
2022 - 3rd Year Group Project

- Lumen is a secure course delivery platform built to protect the intellectual works of online course providers/tutors.
- Utilizes DRM technologies like Widevine, and PlayReady through Azure Media Services.
- Advanced protection measures implemented through a desktop application.

Adoptee | PHP, MYSQL, HTML, CSS, JAVASCRIPT
2021 - 2nd Year Group Project

- "Adoptee" is a web-based platform to connect the public with animal welfare organizations from all around Sri Lanka. which includes the functionality for doctors to conduct consultations online
- Developed using pure PHP without using any frameworks or libraries.

Zismith | NESTJS, ANGULAR, POSTGRESQL
2021 - Freelance Project

- Inventory & POS System built with Angular & NestJS for a leading flower shop in Colombo.

Helix | EXPRESSJS, EJS, POSTGRESQL
2020 - Freelance Project

- IT asset management platform to track assets through their life cycle with servicing records.

DocPad | NESTJS, ANGULAR, MONGODB, JAVAEE, GRAPHQL
2019 - Freelance Project

- Digital prescription writing platform with customizable prescription templates which integrate with existing systems to aggregate patient information.

COMPETITIONS & AWARDS

1st Place @	**Hacktitude** by 99x - DEVELOPMENT HACKATHON	2022
2nd Place @	**DevFest** Hackathon by LSEG - COMPETITIVE PROGRAMMING	2022
1st Place @	**Cypher** by KDU IEEE SB - CAPTURE THE FLAG	2023
2nd Place @	**Codefest Algothon** by SLIIT - COMPETITIVE PROGRAMMING	2023
1st Place @	**ACES Coders** V10.0 - COMPETITIVE PROGRAMMING	2023

CERTIFICATIONS

Continous Delivery & DevOps
COURSERA - JUN 2021
Credential ID : KAC9T8NMF2VJ

Azure Fundamentals - AZ-900
MICROSOFT - MAY 2021

EXTRA CURRICULAR ACTIVITIES

Undergrad
Member - ACM SC OF UCSC
Problem Setter FOR REIDXTREAM, NOI & MADHACK
Member - IEEE SB OF UCSC

School
President - COMPUTER SOCIETY
Chief Editor - PHOTOGRAPHIC ART SOCIETY
Coordinator - ASTRONOMICAL SOCIETY

INTERESTS

Astronomy • Photography • IOT • Robotics • Competitive Programming

REFEREES

Mr. Pasindu Wijesena
CEO, theAITeam Pvt. LTD
✉ pasindu@the-ai.team

Dr. Manjusri Wickramasinghe
Senior Lecturer, University of Colombo School of Computing
✉ mie@ucsc.cmb.ac.lk

Mr. Indika Balasuriya
Head of IT,
Nawaloka Hospitals PLC
✉ headofit@nawaloka.com