

# 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 | 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.

### Reserach Intern | UCSC - COGNITIVE SCIENCE & TIME SERIES LAB

Nov 2022 – May 2023 | 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 | 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 SysAdmin 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 • TensorFlow •  
ThreeJS • VueJs • React  
Native

### Tools & Platforms

Git • Linux • Docker • GCP  
Electron • Node.JS •  
Firebase

## PROJECTS

**Heart Murmur Detection in PGCs** | TENSERFLOW, LIBROSA, DEEP LEARNING  
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, JAVAAE, 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 @	<b>Hacktitude</b> by 99x - DEVELOPMENT HACKATHON	2022
2nd Place @	<b>DevFest</b> Hackathon by LSEG - COMPETITIVE PROGRAMMING	2022
1st Place @	<b>Cypher</b> by KDU IEEE SB - CAPTURE THE FLAG	2023
2nd Place @	<b>Codefest Algothon</b> by SLIIT - COMPETITIVE PROGRAMMING	2023
1st Place @	<b>ACES Coders</b> V10.0 - COMPETITIVE PROGRAMMING	2023

## CERTIFICATIONS

**Continuous 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

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#### Dr. Manjusri Wickramasinghe

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#### Mr. Indika Balasuriya

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