Madhushan Ramalingam

Intern Software Engineer

A computer engineering undergraduate seeking an internship opportunity to practice software engineering with a team, learn more about this profession and apply current skills to add a considerable value to the company.

Contact

Phone
+94 77 9485 724

Email
madhushan.ramalingam@gmail.com

Address
No: 191/28,
Srimath Kudarathwatta
Mw, Kandy 20000

Education

2019 - Present
BSc in Computer Engineering
GPA: 3.55
University of Peradeniya

2008 - 2017
Physical Science
St. Anthony's College, Kandy

References

Prof. Roshan G. Ragel
Head of the Department
Department of Computer Engineering,
Faculty of Engineering,
University of Peradeniya
Email : roshanr@eng.pdn.ac.lk

Dr. Isuru Nawinne
Senior Lecturer
Department of Computer Engineering
Faculty of Engineering
University of Peradeniya
Email : isurunawinne@eng.pdn.ac.lk

Links

drmadhushan.github.io

madhushan-ramalingam

DrMadhushan

drmadhushan

drmadhushan

Projects

July 2022 - Present
Data acquisition and analysis software
Python, JavaScript, SQLite
- Designing a web application for data acquisition and visualization
- Working on algorithms to process the data to generate useful insights to enhance production quality using LEAN and 6-Sigma rules

February 2022 - Present
Analytical Software for Next Generation Skim Sequencing
Java, IntelliJ, JavaFX, ML
- Worked on the requirements engineering phase in the bio-informatics research domain.
- Empathized customer problems and worked on modeling the solution
- Worked on designing UI for automating CLI tools

April 2022 - October 2022
Automated Photovoltaic System for a Smart Building
Node-red, SCADA, Industrial Networking, IoT
- Developed SCADA interface and data visualisation using node-red dashboard
- Worked on bug fixing in program code

May 2021 - Dec 2021
Smart Inventory System
MySQL, Electron, Raspberry Pi, MQTT
- Assisted to develop a smart inventory management system for Computer Engineering Maker Space
- Developed a KIOSK application to student interaction in the Maker Space
- Developed a pickup locker integrated with KIOSK app to pick-up pre-ordered packages

September 2020
B2B supply chain system
Python, Django, MySQL, Bootstrap
- Created a relational database to handle multiple business inventory and orders
- Developed a web application to interface customer online orders

Mini Projects

March 2022
Compiler for COOL Language
C++, Flex, Bison
- Got hands-on experience in Finite State Machines, Abstract Syntax Trees, Regular Expressions, Context-Free Grammars

April 2020
Fractal Generator
Java, Swing, Multi-Threading
- Designed a GUI app that generates the Mandelbrot and Julia sets according to user specifications.
- Improved image generation time using multi-threading

Experience

Department of Computer Engineering, UoP
Casual Instructor
Computing, Computer Networks, Network Security
- Assisted lecturers to conduct labs for computer engineering courses.
- Improved skills on guiding people to self-learn

Languages

English - Professional

Sinhala - Limited Working

Tamil - Native

Relevant Coursework

- Machine Learning
- Data Structures & Algorithms
- Programming Methodology
- Linear Algebra
- Statistics & Probability
- Database Systems
- Software Engineering
- Web Application Development
- Network Security
- Computer Networks
- Industrial Networks
- Computer Architecture
- Operating Systems
- Compilers

◇ **SternX Engineering PVT LTD**
Junior Software Developer
- Worked in development of the front end of a mobile application for Android using Dart and the Flutter framework.

◇ **AIESEC in Kandy**
Team Leader
Incoming Global Teacher/ Talent
- Conducted business proposal pitches and product explaination pitches for schools and companies in Sri Lanka.
- Signed partnerships with Sun British College, Vavuniya for Global teacher.
- Lead a team to achieve weekly and monthly targets on customer realizations

◇ **Web Consultation Team, University of Peradeniya**
Team Leader
Student web presence and quality content
- Worked as a team to address the problems in university web ranking
- Analysed and suggested SEO and web quality enhancement guidelines to Gulf University Sanad, Bahrain.

◇ **DSP Kandy Marketing, Sri Lanka**
Food Service Distributor
Kandy, Kurunegala, Nuwara-Eliya, Kegalle, Badulla, Matale
- Assisted as a service distributor for a range of products of C.W. Mackie PLC
- Interacted with multiple layers of customer hierarchy in hospitality system in Sri Lanka

Achievements/ Extracurricular

🏆 **37th place out of 200 teams**
Hacktitude 2022 Inter-University Hackathon — 99x
2022
- Worked on a real-world project involving a web-based LMS application.
- Implemented features and fixed software bugs as a remote team collaboratively contributing to git

🏆 **Participated and completed 6 week social innovation bootcamp**
Hackadev - National Youth Social Innovation Challenge
2020/21
- Worked on building a business model for the software project
- Extended the development of B2B supply chain system

🏆 **Ranked 3rd in Kandy district**
G.C.E Advanced Level
2017
- Ranked 55th in the country with 2.4058 Z-Score
- Awarded with the best student in physical science medal for the year 2017

🏆 **Editor-in-Chief**
Hindu Students Union
2015 - 2016
- Published the annual magazine of the union called 'Bramham'
- Authored several poems and articles

🏆 **Point Guard Player**
Basketball
2013 - 2015
- Champions in inter-house sports meet
- Played in district level tournament and achieved runners-up
- Played for the school in National Basketball Championship

🏆 **Ranked 3rd in national level**
All Island Social Science Competition
2010