



MADHUSHAN RAMALINGAM

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Overview

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.

Education

University of Peradeniya

Bachelor of Science in Computer Engineering — Current GPA: 3.55

Dec. 2018 – present

Kandy, Sri Lanka

St. Anthony's College, Kandy

Advanced Level - Physical Science — Z-Score: 2.4058

Feb. 2009 – Aug. 2017

Kandy, Sri Lanka

Relevant Coursework

- Data Structures
- Database Systems
- Industrial Networks
- Network Security
- Software Engineering
- Computer Networks
- Computer Architecture
- Web Application Development
- Machine Learning
- Operating Systems
- Compilers

Projects

Analytical Software for Next Generation Skim Sequencing | *Java, IntelliJ, JavaFX, ML* **February 2022 - present**

- Designing a software for Bioinformatics researchers to implement a graphical environment to process Mitochondria, Chloroplast and ITS region data with additional recommendations on data path.
- Using JavaFX to create a GUI that supports actions such as handle files, choose actions, visualize data analytics, etc.

Data acquisition and analysis software | *Java, JavaFX, Azure DevOps, SQLite, LEAN, 6-Sigma* **July 2022 - Present**

- Designing a desktop application for data acquisition and visualization
- Developing algorithms to process the data to generate useful insights to enhance production quality using LEAN and 6-Sigma rules

Smart Inventory System | *Laravel, Vue Js, MySQL, Electron, Raspberry Pi, MQTT*

May 2021

- 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

B2B supply chain system | *Python, Django, MySQL, Bootstrap*

September 2020

- Created a relational database to handle multiple business inventory and orders
- Developed a web application to interface customer online orders

Mini Course Projects

Fractal Generator | *Java, Swing, Multi-Threading*

April 2020

- Designed a GUI app that generates the Mandelbrot and Julia sets according to user specifications.
- Improved image generation time using multi-threading

Compiler for COOL Language | *C++, Flex, Bison*

March 2022

- Got hands-on experience in Finite State Machines, Abstract Syntax Trees, Regular Expressions, Context-Free Grammars

Skills

Languages: English, Sinhala, Tamil

Soft skills: Teamwork, Critical communication, Listening, Work ethics, Adaptability

Programming Languages: Python, Java, C, Node JS, SQL

Developer Tools: VS Code, Git, IntelliJ, GitHub, Azure DevOps

Technologies/Frameworks: FastAPI, MySQL, MongoDB, Django, Express, JavaFX, Scene Builder, Linux, CoLab

Web: HTML, CSS, JavaScript, Bootstrap, REST

Libraries: Numpy, Pandas, Matplotlib, Pytest

Experience

AIESEC in Kandy

February 2020 – December 2021

Team Leader

Incoming Global Teacher/ Talent

- Conducted business proposal pitches and product explanation 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

SternX Engineering PVT LTD

May 2021 – present

Junior Software Developer

- Worked in development of the front end of a mobile application for Android using Dart and the Flutter framework.

Department of Computer Engineering, UoP

May 2021 – present

Casual Instructor

Computing, Computer Networks

- Assisted lecturers to conduct labs for computer engineering courses.

Web Consultation Team, University of Peradeniya

May 2020 – Aug 2021

Member-in-Charge for Student web pages and quality content

- Worked as a team to address the problems in university web ranking
- Analyzed and suggested SEO and web quality enhancement guidelines to Gulf University Sanad, Bahrain.

DSP Kandy Marketing, Sri Lanka

August 2017 – Aug 2018

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

Hacktitude 2022 Inter-University Hackathon — 99x

2022

37th place out of 200 teams

University of Peradeniya

- 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

Hackadev - National Youth Social Innovation Challenge

2020/21

Participated and completed 6 week social innovation bootcamp

United Nations Development Programme

- Worked on a near real-world project involving a web-based LMS application.

G.C.E Advanced Level

2017

Ranked 3rd in Kandy district

St. Anthony's College, Kandy

- Ranked 55th in the country
- Z-Score: 2.4058

Best Student in Physical Science Stream

St. Anthony's College, Kandy

- Awarded with the best student medal for the year 2017

Hindu Students Union

2015 - 2016

Editor-in-Chief

St. Anthony's College, Kandy

- Published the annual magazine of the union called 'Bramham'
- Authored several poems and articles

Basketball

2013 - 2015

Point Guard Player

St. Anthony's College, Kandy

- Champions in inter-house sports meet
- Played in district level tournament and achieved runners-up
- Played for the school in National basketball championship

All Island Social Science Competition

2010

Ranked 3rd in national level

St. Anthony's College, Kandy

References

Prof. Roshan G. Ragel

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Head of the Department — Department of Computer Engineering

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Dr. Isuru Nawinne

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