Madhushan Ramalingam

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Education

University of Peradeniya Dec. 2018 – present
Bachelor of Science in Computer Engineering *Kandy, Sri Lanka*

St. Anthony's College, Kandy Feb. 2009 – Aug. 2017
Advanced Level - Physical Science *Kandy, Sri Lanka*

Relevant Coursework

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

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.
- Implemented Machine Learning paradigms to provide user recommendations for optimized data processing

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 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

Experience

AIESEC in Kandy February 2020 – December 2021
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

SternX Engineering PVT LTD May 2021 – present
Junior Software Developer

- Assisted 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

Technical Skills

Languages: Python, Java, C, HTML/CSS, Bootstrap, JavaScript, SQL
Developer Tools: VS Code, IntelliJ
Technologies/Frameworks: Linux, GitHub, JUnit, Azure DevOps, CoLab

Achievements/ Extracurricular

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

References

Prof. Roshan G. Ragel   roshanr@eng.pdn.ac.lk

HoD — Department of Computer Engineering   *Faculty of Engineering, University of Peradeniya*

Dr. Isuru Nawinne   isurunawinne@eng.pdn.ac.lk

Senior Lecturer, Department of Computer Engineering   *Faculty of Engineering, University of Peradeniya*