RUSIRU THUSHARA

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PROFILE

A 3rd-year computer engineering undergraduate with five national level hackathon wins since 2019 and over two years of software development in Java and Python. A quick learner with a strong interest in algorithmic programming, artificial intelligence and a passion for finding simple, innovative solutions to complex programming problems and seeking an opportunity in a challenging environment for an internship to contribute towards the organization and team growth.

EDUCATION

University of Peradeniya, Sri Lanka   *Nov. 2017 – Present*
Undergraduate in BSc. Engineering(Hons.) Computer Engineering **CGPA: 3.80/4.00**

Taxila Central College, Horana, Sri Lanka   *2008 – 2016*
G.C.E. Advanced Level Examination | Physics - A, Combined Mathematics - A, Chemistry - B

WORK EXPERIENCE

Software Team Lead | SternX Engineering (Pvt) Limited   *March. 2021 – Present*
Developing Web and Mobile Applications for clients, Team Leader of an eight member team

SKILLS (Skill Level : Descending)

Programming Languages	Python, Java, Java Script, C/C++, Matlab
Web Development	Django, Express, React, Spring Boot, Flask, HTML/CSS
Machine Learning and Data Modeling	TensorFlow, Scikit-Learn, Numpy, Pandas, OpenCV

HONORS & AWARDS

1st Runner up of Douthan 1.0   *Feb. 2021*
12 hour competitive programming competition for university undergraduates in Sri Lanka.
Organizer : IEEE Student Branch, NSBM Green University, Sri Lanka

1st, 2nd, 1st Country Rank in Hack the Interview IV,V,VI (Asia Pacific)   *2020*
60 hours competitive coding contest on hackerrank
Placed 1st, 2nd, 1st country rank and 88th, 343th, 195th respectively in Asia Pacific region

2nd Runner up of HackDown 2020   *Apr. 2020*
Competitive programming competition for university undergraduates in Sri Lanka.
Organizer : IEEE WIE Student Branch Affinity Group of University of Moratuwa, Sri Lanka.

2nd Runner up of hackStat 2.0   *Oct. 2019*
Competitive programming competition for university undergraduates in Sri Lanka.
Organizer : Stat Circle, University of Colombo, Sri Lanka.

2nd Runner up of UoJCoders v1.0   *Mar. 2019*
12 hour competitive programming competition for university undergraduates in Sri Lanka.
Organizer : Department of Computer Science, University of Jaffna, Sri Lanka.

Gold Medal in Sri Lankan Physics Olympiad | National Rank - 2nd, Score : 96/100   *2016*
An annual competition held among high school students to select delegations for the APhO and IPhO.

PROJECTS

Swarm Robots Platform
2021

Obstacle bots that are localized with an overhead camera setup with the capability of positioning themselves without collisions forming challenging patterns.

Technologies: Python, OpenCV, Numpy, Three.js, CSS, HTML, MQTT, GRPC
Techniques: Stochastic gradient descent, PID, Image processing, Encryption

Project MESOW
Ongoing

A portable device for the visually impaired, which is getting a video stream of the surrounding, analyses it and sends a real-time acknowledgment of the surrounding via voice.

Technologies: Python, OpenCV, Numpy, AI, NLP

National Covid 19 Management System
Ongoing

Full-stack web application showcasing country level, district level, hospital level, and overall patient statistics of daily Covid-19 updates and the patient management system.

Technologies: Spring Boot, React, PostgreSQL

Airport Ticket Booking System
2020

Web application and Mobile Application with a Database Management System for passengers and airports.

Technologies: Dart, MySQL, PHP, HTML, CSS

Crossword Puzzle Game
2021

An instant game developed for Facebook focusing children where they can select and solve a crossword puzzle.

Technologies: React

Auction Server
2019

Implemented a sample server that can be used by clients to bid for items in a stock exchange.

Technologies: Java | Techniques: Threads, Synchronization primitives, Sockets, OOP, and Collections

CERTIFICATES AND COURSES

Introduction to Cybersecurity	Cisco Networking Academy	*Jan. 2021*
Data Structures and Algorithms Specialization	UC San Diego	Coursera	*Aug. 2020*
Deep Learning Specialization	deeplearning.ai	Coursera	*Aug. 2020*
AI for Medicine Specialization	deeplearning.ai	Coursera	*Aug. 2020*
AWS Computer Vision: Getting started with GluonCV	AWS	Coursera	*Aug. 2020*
Cisco Certified Network Associate Routing and Switching	*2019 – 2020*

Routing and Switching Essentials, Introduction to Networks | Cisco Networking Academy

Fundamentals of Business Economics | Chartered Institute of Management Accountants (CIMA)   *May 2019*

TEACHING EXPERIENCE

Instructor and Teaching Assistant | University of Peradeniya   *2020 – Present*

CO321 : Embedded Systems for 3rd year Computer Engineering undergraduates
CO253 : Programming and Networking for Electrical and Electronic Engineering undergraduates
GP106 : Computing for all first year undergraduates

Data Structures and Algorithms with Hackers' Club for all undergraduates at UoP | Volunteer   *2020*

Maths, Science and English for students of Omaththa College, Mathugama. | Volunteer   *2019 – 2020*

REFERENCE

Prof. Roshan Ragel roshanr@pdn.ac.lk
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Faculty of Engineering, Univeristy of Peradeniya

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