

RUSIRU THUSHRA

thushrakart@gmail.com | linkedin.com/in/rusiru-thushara | github.com/thusharakart

No. 372/1, Opalla, Govinna, Horana, Sri Lanka | +94 713 022 214

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	<i>Nov. 2017 – Present</i>
Undergraduate in BSc. Engineering(Hons.) Computer engineering	CGPA: 3.80/4.00
Taxila Central College, Horana, Sri Lanka	<i>2008 – 2016</i>
G.C.E. Advanced Level Examination — Physics - A, Combined Mathematics - A, Chemistry - B	

WORK EXPERIENCE

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

SKILLS (SKILL LEVEL : DESCENDING)

Programming Languages	Python, Java, C++, C, Java Script, Matlab
Web Development	Python(Django, Flask), Java Script, MySQL, HTML/CSS, PHP
Modeling	TensorFlow, Scikit-Learn, Numpy, Pandas, OpenCV

ACHIEVEMENTS

1st Runner up of Douthan 1.0	<i>Feb. 2021</i>
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)	<i>2020</i>
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	<i>Apr. 2020</i>
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	<i>Oct. 2019</i>
Competition in data analysis and prediction on an insurance data set. Organizer : Stat Circle, University of Colombo, Sri Lanka.	
2nd Runner up of Techno HackathonXtreme 2019	<i>Oct. 2019</i>
Competitive programming hackathon in Sri Lanka. Organizer : IESL Student Chapter, University of Moratuwa, Sri Lanka.	
2nd Runner up of UoJCoders v1.0	<i>Mar. 2019</i>
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	<i>2016</i>
An annual competition held among high school students to select delegations for the APhO and IPHO.	

PROJECTS

Swarm Robots Platform

2020 – 2021

- Obstacle bots that are localized with a overhead camera setup is used to make challenging patterns.
Technologies: Python, OpenCV, Numpy, JavaScript, CSS, HTML, MQTT, GRPC
- *Techniques: Stochastic gradient descent, PID, Image processing, Encryption*

Airport Ticket Booking System

2020

- Web application and Android Application with a Database Management System
- *Technologies: Dart, MySQL, PHP, HTML, CSS*

CPU implementation

2019

- Implemented ALU with memory management that can execute a binary code with given Instruction Set Architecture. — *Technologies: Verilog*

Fractals implementation

2019

- Implemented Mandelbrot sets and Julia sets for user given parameters.
- *Technologies: Java, Computational Mathematics*

Auction server

2019

- Implemented a sample server which 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 | Issuer : Cisco Networking Academy

Jan. 2021

Data Structures and Algorithms Specialization

Aug. 2020

Issuer : UC San Diego through Coursera

Deep Learning Specialization and AI for Medicine Specialization

Aug. 2020

Issuer : deeplearning.ai through Coursera

AWS Computer Vision: Getting started with GluonCV | AWS | Coursera

Dec. 2020

Cisco Certified Network Associate Routing and Switching

2019 – 2020

Routing and Switching Essentials / Introduction to Networks | Issuer : Cisco Networking Academy

TEACHING EXPERIENCE

Instructor, University of Peradeniya.

2020 – 2021

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.

2020

Mathematics/Science/English for rural schools - Omaththa College, Mathugama.

2019 – 2020

REFERENCES

Prof. Roshan Ragel | roshanr@pdn.ac.lk

Senior Lecturer, Dept. of Computer Engineering
Faculty of Engineering, University of Peradeniya

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

Senior Lecturer, Dept. of Computer Engineering
Faculty of Engineering, University of Peradeniya