

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

I am a 3rd year computer engineering undergraduate at University of Peradeniya, Sri Lanka. I am passionate about software development, algorithmic programming and artificial intelligence. I enjoy turning complex problems into simple, creative and intuitive designs. I am currently looking for internships from October 2021.

EDUCATION

University of Peradeniya, Sri Lanka

Nov. 2017 – Present

Undergraduate in BSc. Engineering(Hons.) Computer engineering

CGPA: 3.76/4.00

Taxila Central College, Horana, Sri Lanka

2008 – 2016

G.C.E. Advanced Level Examination — Physics - A, Combined Mathematics - A, Chemistry - B

EXPERIENCE

Software Team Lead | SternX Engineering (Pvt) Limited

March. 2021 – Present

Developing Web and Mobile Applications for clients

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, Object Oriented Programming, and Collections*

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

Languages

Sinhalese, English

ACHIEVEMENTS

- 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*
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** *Oct. 2019*
Competitive programming hackathon in Sri Lanka.
Organizer : IESL Student Chapter, University of Moratuwa, Sri Lanka.
- 2nd Runner up of UoJCodiers v1.0** *Mar. 2019*
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.

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*
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, Univeristy of Peradeniya | Dr. Isuru Nawinne isurunawinne@eng.pdn.ac.lk
Senior Lecturer, Dept. of Computer Engineering
Faculty of Engineering, Univeristy of Peradeniya |
|---|---|