

# RUSIRU THUSHRA

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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

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

## WORK EXPERIENCE

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

## SKILLS (SKILL LEVEL : DESCENDING)

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

## ACHIEVEMENTS

<b>1st Runner up of Douthan 1.0</b>	<i>Feb. 2021</i>
12 hour competitive programming competition for university undergraduates in Sri Lanka. Organizer : IEEE Student Branch, NSBM Green University, Sri Lanka	
<b>1st, 2nd, 1st Country Rank in Hack the Interview IV,V,VI (Asia Pacific)</b>	<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	
<b>2nd Runner up of HackDown 2020</b>	<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.	
<b>2nd Runner up of hackStat 2.0</b>	<i>Oct. 2019</i>
Competition in data analysis and prediction on an insurance data set. Organizer : Stat Circle, University of Colombo, Sri Lanka.	
<b>2nd Runner up of Techno HackathonXtreme 2019</b>	<i>Oct. 2019</i>
Competitive programming hackathon in Sri Lanka. Organizer : IESL Student Chapter, University of Moratuwa, Sri Lanka.	
<b>2nd Runner up of UoJCoders v1.0</b>	<i>Mar. 2019</i>
Competitive programming competition for university undergraduates in Sri Lanka. Organizer : Department of Computer Science, University of Jaffna, Sri Lanka.	
<b>Gold Medal in Sri Lankan Physics Olympiad   National Rank - 2nd, Score : 96/100</b>	<i>2016</i>
An annual competition held among high school students to select delegations for the APhO and IPHO.	

## PROJECTS

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### 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*

### Project MESOW

ongoing

- A portable device for visually impaired, which is getting a video stream of the surrounding, analyses it and sends real-time acknowledgement of the surrounding via voice.  
*Technologies: Python, OpenCV, Numpy, AI, NLP*

### Airport Ticket Booking System

2020

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

### 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

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### 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

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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

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**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  
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