

# 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 experience in software development. A quick learner with a strong interest in algorithmic programming, artificial intelligence and a passion for finding simple, innovative solutions to complex programming problems. 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 B.Sc. Engineering(Hons.) Computer Engineering **CGPA: 3.80/4.00**

### SPARK X Professional Development Program | Spark Academy, Sri Lanka

Mar 2021 - Sep 2021

A 6-month industry readiness program for software engineers that includes technical modules like developing and delivering real-world applications, problem solving, and soft skills. Earned a full scholarship during the selection process.

## WORK EXPERIENCE

### Software Team Lead | SternX Engineering (Pvt) Limited

March 2021 – Present

Team leader of an eight-member software developer team who follows Scrum methodologies to deliver web and mobile applications for clients.

### 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

## TECHNICAL STRENGTHS

<b>Languages</b>	Python, Java, C/C++, JavaScript	<b>Backend</b>	Spring Boot, Nodejs, Expressjs, Django
<b>Mobile Development</b>	Native Android, Flutter	<b>Frontend</b>	Reactjs, Bootstrap, HTML/CSS
<b>Databases</b>	MySQL, PostgreSQL, MongoDB	<b>Modeling</b>	TensorFlow, Scikit-Learn, NumPy, Pandas

## HONORS & AWARDS

### 1st Runner up of MoraXtreme 6.0 (of 180+ teams)

Oct. 2021

12 hour competitive programming competition for university undergraduates in Sri Lanka.

### 1st Runner up of Douthan 1.0 (of 80+ teams)

Feb. 2021

12 hour competitive programming competition for university undergraduates in Sri Lanka.

### 1st, 2nd, 1st Country Rank in Hack the Interview IV,V,VI (Asia Pacific)

2020

Placed 1st, 2nd, 1st country rank and 88/4353, 343/3077, 195/2530 respectively in Asia Pacific region

### 2nd Runner up of HackDown 2020 (of 200+ teams) | Competitive programming competition

Apr. 2020

### 208th world rank of IEEE Xtreme 15.0 (of 5500+ global teams)

Oct. 2021

24 hour competitive programming competition for university undergraduates worldwide.

### 2nd Runner up of hackStat 2.0 (of 90+ teams)

Oct. 2019

Competition in data analysis and prediction on an insurance data set.

### 2nd Runner up of UoJ Coders v1.0 (of 100+ teams)

March 2019

Competitive programming competition for university undergraduates in Sri Lanka.

### 1680th global rank of Facebook Hacker Cup 2020 (of 32500+ global participants)

July 2020

### Top 20 country rank of Google Code Jam, Hash Code, Kick Start

2019 - 2020

### 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

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### Identity Access Management (IAM) System for University of Peradeniya

Ongoing

Defining and managing the roles and access privileges of individual network entities of the UoP.

Technologies: [Express.js](#), [React.js](#), [Web Security](#), [Authentication](#), [Authorization](#)

### National Covid 19 Management System

2021

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: [Java](#), [Spring Boot](#), [Spring Data JPA](#), [Hibernate](#), [Spring Security](#), [React](#), [PostgreSQL](#)

### 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: [Django](#), [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](#)

### 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.js](#)

### 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

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Introduction to Cybersecurity | Cisco Networking Academy

Jan. 2021

Data Structures and Algorithms Specialization | UC San Diego | Coursera

2020

Deep Learning Specialization | deeplearning.ai | Coursera

2020

AI for Medicine Specialization | deeplearning.ai | Coursera

2020

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

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

## EXTRA CURRICULAR

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Teaching Data Structures and algorithms with Hackers' Club for all undergraduates at UoP

2020

Creating coding problems for five [HackerRank programming competitions](#) of UoP

2020

Volunteer teaching | Maths, Science and English at Omaththa College, Mathugama

2019 - 2020

Captain | Main Chess Team, Taxila Central College, Horana, Sri Lanka

2008 - 2016

Have won multiple achievements including 1st runner-up in district level

Senior House Captain | Taxila Central College, Horana, Sri Lanka

2015

## REFERENCE

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