

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 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 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, creative problem solving, and soft skills like empathy, communication, leadership, professionalism, and ethics. Earned a full Spark Academy 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

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

HONORS & AWARDS

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

60 hours competitive coding contest on hackerrank

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

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.

Top 20 country rank of IEEE Xtreme 14.0 (of 2000+ global teams)

Oct. 2020

24 hour competitive programming competition for university undergraduates worldwide.

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

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

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 GluonCV | 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

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

<https://github.com/thusharakart/Coding-Sessions>

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

Prof. Roshan Ragel roshanr@pdn.ac.lk

Professor, 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