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 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   *Nov. 2017 – Present*
Undergraduate in BSc. 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

Co-Founder and 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

SKILLS

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 UoJCoders v1.0 (of 100+ teams)   *March 2019*
Competitive programming competition for university undergraduates in Sri Lanka.

Top 20 country rank of IEEEXtreme 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 Universiry 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   **Dr. Isuru Nawinne** isurunawinne@eng.pdn.ac.lk
Senior Lecturer, Dept. of Computer Engineering   Senior Lecturer, Dept. of Computer Engineering
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