



Suneth Samarasinghe

Computer Engineering Undergraduate

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📍 2/97 Daliwala Road,
Pamunuwa-west,
Pilimathalawa.

Interests

- Software/Web Development
- Artificial Intelligence
- High Performance Computing
- Competitive Programming
- Robotics

Certifications

Huawei Seeds for the Future 2020
One of the 16 participants representing Sri Lanka

Machine Learning
Andrew NG, Stanford University, Coursera

Deep Learning Specialization
4 Courses - deeplearning.ai, Coursera

AWS Fundamentals: Going
Cloud-Native
Amazon Web Services, Coursera

Introduction to Big Data and
Hadoop
BdREN, Bangladesh

Extension Course in English for
Professionals
Department of English, University of Peradeniya

Education

B.Sc. Computer Engineering
University of Peradeniya

Current GPA: 3.8/4.0

G.C.E. Advanced Level
Dharmaraja College, Kandy

Z-Score: 1.979

Work Experience

Casual Instructor
Department of Computer Engineering

Feb 2020 - Jul 2020

Technical Consultant
IgniterSpace, Kandy

Feb 2019 - Present

Research and Projects

Accelerating ABEA Algorithm on FPGAs - *Research* Ongoing
A parallelized and optimized version of the ABEA algorithm on FPGAs using high-level synthesis.
[C/C++](#), [OpenCL](#), [FPGA](#)

Finite Element Based Structural Analysis 2018
Contribution: Implement and integrate material models, structure, section and fiber levels.
[Python](#), [Numpy](#), [Matplotlib](#), [OOP](#)

Intelligent Road Traffic Control System 2019
Contribution: Implement radio communication, design and build hardware of the prototype.
[Raspberry Pi](#), [ESP](#), [Arduino](#), [MQTT](#), [JS](#)

Prediction Model for an Unknown Dataset 2019
Contribution: Optimize a model with data visualization and hyper-parameter tuning. (Group 7 - bit.ly/PredLB)
[Python](#), [Numpy](#), [Pandas](#), [Matplotlib](#)

Pera SAP-I (Simple As Possible Computer) 2018
Contribution: Design gate level registers.
[Fritzing](#) [Circuit CAD](#) software

Personal Chatbot - Individual 2020
Trained on my personal information. (bit.ly/imsuneth)
[ReactJS](#), [Flask](#), [Material-UI](#), [Heroku](#), [TensorFlow](#), [Keras](#)

Road Traffic Simulator - Individual 2018
For Intelligent Road Traffic Control System project.
[Python](#) [multithreading](#), [tkinter](#) (bit.ly/RTSDemo)

Smart Spreader Machine Monitoring for MAS holdings 2020
Contribution: Hardware design, program the custom rotary encoder and the embedded device.
[ESP32](#), [Firebase](#)

EasyMed - An online pharmacy 2020
Contribution: Database design and indexing.
[MySQL](#)

Extra Curricular

Committee Member ACES 2020
Association of Computer Engineering Students

Team Member
Marketing and Communication at OGT

Design Team Member
ACES 2018 and 2019

Member
Music society, University of Peradeniya
Stage performance in Unifusion 2017, 2018, 2019

Member
The Ceylon Dramatic Society (DRAMSOC),
University of Peradeniya

Member
Astronomy society, Dharmaraja College 2012-2014

Freelance Graphic Designer
Since 2014

Familiar technologies

- Java, C/C++, Python, Matlab
- HTML, CSS, JS, PHP, React, Node, Bootstrap, MySQL, Firebase, Docker
- Tensorflow, Keras, Scikit learn, Numpy, Pandas, Weka, OpenCV
- AVR, Verilog HDL, Arduino, NodeMCU RaspberryPi
- Hadoop, Pyspark, MapReduce
- Android Studio, Flutter
- Github, Linux, Heroku

Referees

Prof. Roshan Ragel
Senior Lecturer
Department of Computer Engineering
University of Peradeniya
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Dr. Asitha Bandaranayake
Senior Lecturer
Department of Computer Engineering
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Achievements

1st Place in Medical and Healthcare Category ACES Hackathon - Leader	2019
Most Popular Idea "Data Over Sound" ACES Hackathon - Leader	2018
2nd Place in Network and Systems Category ACES Hackathon - Leader	2017
4th Place - Team "JPAC" ACES Coders v7.0 - Leader	2018
27th Country Rank, 476th WorldRank - Team "JPAC" IEEEEXTREAM 13.0	2019
41st Country Rank, 528th World Rank - Team "JPAC" IEEEEXTREAM 12.0 - Leader	2018
65th Country Rank, 604th World Rank - Team "3Bits" IEEEEXTREAM 11.0 - Leader	2017
3rd Place in LED Cubes Category Innovators, UoP - Leader	2017
Finalists - Robot "The Flying Dutchman" Sri Lankan Robotics Challenge (SLRC)	2018
Finalists - Robot "Minotaur" Xbotix Ruhuna Robotics Challenge	2018
Finalists - EcoCredit TADHACK hackathon	2018
2nd Place Schools Educational Software Provincial Competition	2011
Merit Award Schools Educational Software Provincial Competition	2010

Mini Projects

Covid 19 Tracker ReactJS , ChartJS , Material-UI	2020
VoIP group calling application using IP multicasting Java	2019
MIPS Assembly Instruction Simulator Java	2018
Auction Server and client where multiple clients can bid Java , Socket Programming	2018
ALU gate level implementation Verilog HDL	2018
Fractals visualization application Java	2018
Tic Tac Toe Hand-held game MATLAB support package for Arduino	2017
Flow Rate Meter using temperature gradient Arduino	2017
Speaker identification using signal analysis MATLAB , Excel	2017