

Suren Sritharan

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Summary

I am a computer engineering undergraduate mainly interested in Algorithmic programming, Machine learning/AI, Mathematics, Networking and Computer Architecture

Education

B.Sc. Engineering (Specializing in Computer Engineering) University of Peradeniya Current GPA - 4.0 / 4.0 (1 st in batch)	2016 – present
Advanced diploma in Management Accounting (Management level) The Chartered Institute of Management Accountants (CIMA)	2014 – 2015
G.C.E Advanced level (Physical Science) Trinity College Kandy Z-score - 2.514 (16 th district, 99 th country rank)	2012 – 2014

Projects

Infant sleep apnea detection <ul style="list-style-type: none">• Vision based detection of sleep apnea in infants• Algorithms - Optical flow, Edge detection• Technologies - Python, OpenCV	2018 (Ongoing)
Foreground estimation in dynamic background <ul style="list-style-type: none">• Detection of foreground in dynamic background containing aquatic scenes using adaptive cylindrical mixture models.• Algorithms - Adaptive cylindrical models, RPCA, SOM• Technologies - Python, OpenCV	2017
CPU design on FPGA using VHDL <ul style="list-style-type: none">• Implementation of CPU and Memory for specific ISA• Technologies - Verilog	2017
Identifying earth resources using hyper spectral imagery <ul style="list-style-type: none">• Software that predicts the existence of given mineral by analyzing HSI images.• Technologies - Python, MATLAB, numpy, scipy	2017
Inventory management system <ul style="list-style-type: none">• Decision support system for inventory management• Algorithms - Deterministic inventory management models• Technologies - Python, Tkinter, MySQL	2017

Achievements

Dialog NBIOT Hackathon - 2nd place 1st NBIOT based hackathon in Sri Lanka with 10 chosen teams	2018
Google Code Jam - Qualified to R1 Worldwide Competitive Programming Competition organized by Google	2017
IEEEExtreme 11.0 - 1st Country Rank, 121st World Rank 24-hour Worldwide Competitive Programming Competition organized by IEEE	2017
ACES Hackathon 2017 - Best Software An Inter-Faculty Hackathon at Faculty of Engineering, University of Peradeniya with over 20 teams	2017
Google Code Jam - 1st Country Rank (qualification round) Worldwide Competitive Programming Competition organized by Google	2017
ACES Coders 2016 - 4th place Sri Lanka's Biggest programming competition with over 300 coders from multiple universities and institutions. Contestants compete overnight for 12 hours.	2016
CIMA OCS exams - 1st Country rank, 5th World rank Case study exam is an exam conducted by CIMA in which examinee must show his financial and management skill in a virtual business environment.	2015
IEEEExtreme 10.0 - 38th Country Rank, 330th World Rank 24-hour Worldwide Competitive Programming Competition organized by IEEE	2016
IEEE electronic design competition - Participation Inter-faculty competition for designing circuit	2017, 2018

Skills

Python • Java • C • MATLAB • JavaScript • HTML • CSS • Arduino • Verilog HDL • Assembly programming • MySQL • Android • Windows • Linux

References

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