SAI CHARAN REGUNTA

(+91)9490102123 ⋄ charan.regunta@gmail.com
saicharanregunta.github.io

EDUCATION

Master of Science (by Research) in Computer Science *2017 - Present*
International Institute of Information Technology, Hyderabad
Bachelor of Technology in ECE with Honors in Computer Science *2013 - 2017*
Indian Institute of Information Technology, Sri City

PUBLICATIONS

***S.C.Regunta**, S.H.Tondomker and K.Kothapalli*
Efficient Algorithms for Estimating the Farness Centrality in Parallel
At 2019 IEEE International Parallel and Distributed Processing Symposium Workshop (IPDPSW), 2019

*D.Dutta, K.Kothapalli, G. Ramakrishna, **S.C.Regunta** and S.H.Tondomker*
An Efficient Ear Decomposition Algorithm
At 15th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, 2017

EXPERIENCE

Teaching Assistant, IIIT Hyderabad Monsoon '19
for Algorithm Analysis & Design course

My responsibilities included grading tests, assignments.

Data Science Intern, LnT Tech. Services, Bengaluru Summer '17

Integrated and developed a CNN model for text classification using tensor flow in python and increased accuracy of the then existing model from 90% to 95%.

Software Development Intern, Finsol Technologies, Hyderabad Winter '16

Was part of a team and had worked in developing a product using C++, which enables the user to access Shanghai Stock exchange by establishing an efficient connection based on CTP Protocol.

Research Intern, C-STAR, IIIT Hyderabad Summer '16
with Dr.Kishore Kothapalli and Dr. Ramakrishna G

I had worked to break the time complexity of an existing algorithm of Ear Decomposition(an algorithm to find the Bi-connectivity of a graph.) and we concluded with 2X faster approach for it.

Undergrad Research Student, IIIT Sri City AYs '15 - '17
Guide: Dr. Ramakrishna G

I worked mainly on two problems. One is introducing a new algorithm for shortest fast paths in temporal graphs and other is to propose an efficient algorithm for ear decomposition. Implemented an algorithm to find the shortest paths among all fastest valid paths in temporal graphs bearing time stamps and weights on every edge, this work has been submitted.

Teaching Assistant, IIIT Sri City AYs '14 - '17
for C-Programming and Data Structures courses

My responsibilities included Conducting lab sessions, designing lab and homework assignments, grading tests for c-programming and data structures courses for first year students.

PROJECTS

Efficient Algorithms for Centrality Measures. Jan 2018 - Present
Mentor: Dr. Kishore Kothapalli *IIIT Hyderabad*

As part of my Masters thesis, I am working on few graph reduction techniques which minimizes running times of algorithm used for calculating centrality values for nodes in a graph

GIS based Tour Guide Spring '17
Mentor: Dr. Sree Ganesh T (University of Gottingen, Germany) *IIIT Sri City*

A tour guide software which provides important information that is extracted from Wikipedia using Machine Learning, about all the tourist visiting places near to the location of the person.

HONORS & AWARDS

Students Travel Grant, High Performance Computing, Data and Analytics (HiPC), Bengaluru Nov '18
Students Travel Grant, Indian Symposium on Computer Systems, IIT Hyderabad Sep '18
Deans Research Award, IIIT Sri City AY '16-'17
Participant, High-Performance Parallel Computing, GIAN course, IIT Madras June '16

TECHNICAL STRENGTHS

Computer Languages C, C++, Python and Basics of MATLAB, HTML, CSS and Java
Software & Tools QGIS, LaTeX, web2py, ipe.

EXTRA CURRICULAR ACTIVITIES

· Member, Student Parliament, IIIT-H. AY '19-'20
· Program coordinator, IEEE Student Branch, IIIT-H. AYs '17-'19
· Member, Hostel Committee, Student Parliament, IIIT-H. AY '17-'18