

SAI CHARAN REGUNTA

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[saicharanregunta.github.io](https://github.com/saicharanregunta)

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 and 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 their 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