SAI CHARAN REGUNTA

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EXPERIENCE

Software Development Engineer - 1

June'20 - Present Embibe, Bengaluru

- Working as a Backend Developer.
- Handling a critical micro service in the application, responsible for constant monitoring, architectural changes and new feature implementations in the micro service.
- Designed and built Spring Boot REST APIs with Java for the applications based on analysed requirements and understanding of technical standards.
- Implemented new functionalities for existing APIs like MongoDB Aggregation, Caching using Redis, Swagger Documentation and Mockito unit test cases for all the methods.
- Implemented custom exception for error handling of all the APIs in our microservice.
- Resolved and improved performance issues and code quality index.

Software Development Intern

Summer '17 Finsol Tech., Hyderabad

- To enable easy access to Shanghai Stock exchange by establishing an efficient connection based on CTP Protocol. (C++)

Data Science Intern

Winter '16 LnT Tech. Services, Bengaluru

- Developed an OCR system in tensorflow using Convolutional Neural Networks.
- Increased accuracy from 80% to 95% on in-house dataset.

Teaching Assistant

AYs '14-'17, Monsoon '19 IIIT Hyderabad and IIIT Sri City

- C-Programming, Data Structures and Algorithms courses.
- Office hours, lab sessions, designing lab and homework assignments, grading tests.

PROFILE LINKS

Google Scholar / LinkedIn / GitHub : Sai Charan Regunta

CO-CURRICULAR ACTIVITIES

Member of Student Parliament

AY '19-'20 IIIT Hyderabad

Program Coordinator, IEEE Students Branch

AY '17-'19 IIIT Hyderabad

EDUCATION

MS by Research in Computer Science

IIIT Hyderabad

2017 – 2020

B.Tech. in ECE (Honors in Computer Science)

IIIT Sri City Research Dean's List

2013 – 2017

TECHNICAL SKILLS

Computer Languages	C, C++, Python, Java, MATLAB
Software & Tools	Spring Boot, MongoDB, git, Redis, ADX, NewRelic, Jenkins.

PUBLICATIONS

- *K. Shukla, **S.C.Regunta**, S.Harsh and K.Kothapalli* Efficient Algorithms for Computing the Closeness-Centrality in Dynamic Graphs, *ICS, 2020*
- ***S.C.Regunta**, S.H.Tondomker and K.Kothapalli* Efficient Algorithms for Estimating the Farness Centrality in Parallel, *IEEE, IPDPSW, Brazil, 2019*
- *D.D, K.K, G. Ramakrishna, **S.C.Regunta** and S. Harsh* An Efficient Ear Decomposition Algorithm, *15th CTW on Graphs and Comb. Opt., Germany, 2017*

PROJECTS

Centrality Measures in Dynamic Graphs

- Graph reduction techniques to optimize running time for algorithms used to calculate centrality values for nodes in a graph.
- Achieved 10x speedup against current best parallel algorithm. link

Shortest Fast Path in Temporal Graphs

- Designed an algorithm for finding short path among all fastest paths in a temporal graph. link

HONORS & AWARDS

Deans Research Award

AY '16-'17 IIIT Sri City

Students Travel Grant
High Perf. Comp., Data and Analytics (HiPC)

November-'18 Bengaluru.

Students Travel Grant
Indian Symposium on Computer Systems

September-'18 IIT Hyderabad.