

SIDDDIREDDY AKASH REDDY

Undergraduate Computer Science Student at IIITH

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EXPERIENCE

Software Engineering Intern

Gentify Solutions

Jan 2021 – May 2021

Hyderabad

- Built a web portal where students can attempt quizzes and teachers can make quizzes and admin can manage all users
- Integrated with 3rd party APIs like firebase for user login ,Razorpay for payments ,Mailchimp for e-mails and twilio for messages.
- Built an Exam Environment interface For taking exams
- Worked extensively with Nodejs, Reactjs ,Mongodb with a team of 4 members.

Undergraduate Project

Spatial Informatics Lab,IIIT H

Mar 2021 – present

IIIT H

- Worked Under Professors Rehana Sheik and K.S Rajan for a Government Project
- From the Given data of tunga bhadra river, after data cleansing we calculated Water Quality index and performed Qual2k simulation on those
- We Developed a web tool which renders Google Maps Component,and color classified the entire river stretch based on water Quality index using polylines.

SKILLS

- Programming Languages: c,cpp,python
- Technologies: Git
- Database Management: MySQL,MongoDB
- Web Development Tools:HTML,CSS,JS
- Frameworks: React,Node,Flask,MapReduce,MPI

EDUCATION

Btech in Computer Science Engineering

International Institute Of Information Technology

Aug 2018 – Present

Hyderabad

- CGPA-7.0

Intermediate

Sri Chaitanya Junior Kalasala

2015-2017

Hyderabad

- percentage-98.1/100

SSC

KKR Gowtham Concept School

2014-2015

Hyderabad

- GPA-9.7/10

ACHIEVEMENTS

- Secured 1062 Rank in JEE Mains
- Secured 357 Rank in Telangana Eamcet
- Secured 163 Rank in AP Eamcet

PROJECTS

Bulk Purchase App

- An E-commerce website where vendors can sell products in a bulk,customers can buy,give reviews and rating for the products.
- The app supports authentication and payments and caters needs of both vendors and customers

JetPack Joyride Game

- Terminal based jet pack joyride game using python which embeds all properties of object oriented programming without any external libraries.

Mini SQL Engine

- Developed a mini sql engine which will run a subset of SQL queries using command line interface in python.
- The dataset is csv files for tables.

Linux Shell

- Implemented a bash shell using c system function from scratch
- Implemented basic commands like cd,mkdir,pwd,ls etc

Two Phase Multiway Merge Sort

- Method to sort Large file which can't fit in main memory,helps to index data for fast retrieval,also improved the performance using parallel programming(threads)

Distributed Programming

- Implemented GHS Algorithm using MPI and MapReduce
- GHS Algorithm is a Classical Distributed algorithm for calculating Minimum Spanning Tree in an Undirected Graph

Clustering Algorithms

- Performed and analyzed Various Clustering Methods like K-means,Hierarchical,DBscan on a FIFA Data set

COURSES TAKEN

Computer Programming,Data Structures and Algorithms,Algorithm Analysis and Design,Computer System Engineering,Automata Theory,Discrete Mathematics,Introduction to Information Security,Design and Analysis of Software Systems,Machine Learning,Topics in applied optimisation,Statistical Methods in AI,Data systems,Data and Applications,Computer System Organization,Distributed Systems,Data Analytics.