

NARAIN SREEHITH MANUBOLU

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EXPERIENCE

Student Software Developer

Perceptive Analytics Pvt. Ltd.

Jan 2021 – Apr 2021 , May 2021 – Jun 2021

- Developed a Flask based API for a Computer-Vision model that detects the items in the input image / video.
- Created an App in React Native for Android & iOS . Implemented capturing & uploading multiple images or videos, making HTTP requests to the API.
- Configured and Deployed the API on Nginx and Unicorn in AWS compute-optimised EC2 instance.
[React-Native, Expo, Flask, AWS, Nginx, Unicorn]

EDUCATION

B. Tech. in Computer Science

International Institute of Information Technology Hyderabad (IIITH)

Aug 2019 – Present

Hyderabad, Telangana India

- CGPA - 8.29/10
- Expected Graduation - 2023

SKILLS

Programming

- C , C++ , Python

Development Frameworks

- HTML , JS , CSS , ReactJS , React Native , Flask , ExpressJS

Familiar with (Misc)

- Shell , Assembly , MySQL , MongoDB , AWS , Nginx , Unicorn

Operating Systems

- Linux

COURSE WORK

- Data Structures and Algorithms
- Algorithm Analysis and Design
- Data and Applications
- Operating Systems and Networks
- Design and Analysis of Software Systems
- Machine Learning
- Introduction to IOT

ACHIEVEMENTS

- Secured 1536 AIR in JEE Advanced 2019.
- Secured 812 AIR in JEE Mains 2019 Paper-1(BTech.)
- Secured 90 AIR in JEE Mains 2019 Paper-2(BArch.)
- Secured 3rd Rank in COMEDK

PROJECTS

Algorithm Visualizer

Implemented visual versions of many popular Data-structures algorithms like Binary Search, Binary Tree, BFS, DFS, Dijkstra, Kruskal's, Prim's, and other popular sorting Algorithms of $O(N^2)$ & $O(N \log N)$. [ReactJS, CSS]

C Shell

- Created a shell from scratch.
- Supports execution of basic commands , Input Output redirection & Pipelines.
- Manages Environment Variables, Foreground and Background Job Handling, Signal handling. [C]

Job Recruitment Portal

- A Job Recruitment Portal using MERN stack. Supports handling of Job vacancies from both Recruiters and Applicants.
- Coded features like Search, Filters and Editing of Jobs. [React, CSS, Express, MongoDB]

Enhanced xv6

- xv6 is an OS, developed in MIT that supports round-robin scheduling.
- Added few system calls, User programs, and Kernel Data Structures.
- Implemented FCFS , Priority Based(PBS) , and Multi-level Feedback queue (MLFQ) scheduling.

Multithreading simulation

Simulated a Vaccination Environment that involves parallel work-spaces like Vaccination centers, Pharmaceutical companies and Students. [C , pthread]

Block Breaker

ASCII based Terminal version of Block Breaker. Implemented using Object Oriented Programming principles. [Python]

DataBase CLI

Designed and Developed a SQL Database CLI , that manages Retrieval, Updation, Relationships in a Secret Agency Mini World. [Python, SQL]