AVANTIKA MUDUMBAI

International Institute of Information Technology, Bangalore

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EXPERIENCE

Summer Intern at Cropin
📅 May 2022 – July 2022

Working on creating a pipeline to collect, normalise and store data from IoT sensors used in agriculture.

Research Intern at IIIT Bangalore
📅 May 2021 – July 2021

Integrated existing code for the marching cubes algorithm with code to visualise the structures in 3D. Implemented the algorithm to generate the contour trees of the iso-surfaces.

Co - founder & Host of #include <people.h>
📅 July 2020 – January 2021

This is a podcast that mainly focuses on how different people perceive life. We try to bring values, opinions and experiences from different people in an attempt to learn something new. We have over 3000 plays for 10 episodes.

SKILLS

Data Structures | Algorithms | Problem Solving | MySQL | Python
Java | C++ | Java Script | Prolog | OCaml | Git | Communication
Machine Learning & Exploratory Data Analysis

PROJECTS

Mini Football | *NodeJS, OpenGL, ThreeJS*
This is a VR simulation of simple 2 player football-like game. In this game, one can carry, dribble and /or kick the ball while attempting to make a goal. The movement of the ball follows the laws of motion and the lighting setup follows the laws of reflection and refraction.

Asset Discovery Tool | *Python, Networking*
A GUI based program to maintain an inventory of all available assets on the organisation's network, both local and remote. Helped to collect information about the resources like its IP address, MAC address and Up-time.

IAS Architecture | *Python, Computer Architecture*
This is a basic implementation of the IAS machine. It uses a file as its memory and can perform: LOAD, STORE and ALU operations on the same.

Hospital Records Management System | *C, System Design*
The project lets you add, delete, update a patient's diagnosis.You can query the patients using parameters like diagnosis, blood group, etc.

Multiple Client Quiz | *Python, Socket Programming*
Implemented basic client-server interaction using socket programming and multi-threading on the TCP protocol in the form of multi-player quiz.

Routing System | *Java*
Implemented OOPS principles in order to show a simulation for a package delivery company. It lets you add hubs, trucks and highways to a network and displays the movement of a truck from its source location to the destination location via the network.

EDUCATION

Integrated Masters of Technology, CSE
International Institute of Information Technology
📅 August 2019 - Present   📍 Bangalore, Karnataka
CGPA: 3.43

Senior Secondary Education
Fiitjee Junior College
📅 June 2017 - March 2019   📍 Hyderabad, Telangana
Percentage: 93.6%

ACHIEVEMENTS

WTEF Scholarship, 2020
Women Techmakers Engineering Fellows, Supported by Google

Microsoft Engage, 2021
Mentee in Microsoft Engage

Flipkart GRiD 3.0 and 4.0
Qualified for the InfoSec Track

ZenseCTF
Secured a position among the top 5 teams

ORGANISATIONS

Sports Committee
IIIT Bangalore
📅 March 2021 - Present

Organised tournaments for various sports like Basketball, Badminton and Volleyball.

Core Member of LeanIn club
IIIT Bangalore
📅 July 2022 - Present

The main objective of the club is to uplift and empower the Women in STEM.
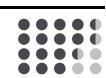
Core Outreach Team
Infin8, Cultural fest of IIITB
📅 January 2020 - January 2021

Managed to get representation from over 70 colleges and 20 companies all over India.

LANGUAGES

English
Hindi
Marathi
Telugu

RELEVANT COURSES

Design and Analysis of Algorithms | DSA
Database Systems | Operating Systems
Software Engineering | Computer Graphics
Data Visualisation