

EDUCATION

International Institute of Information Technology (IIIT-H), Hyderabad, India
Bachelor of Technology in Computer Science and Engineering

September 2020 - Present
GPA: 8.43/10

PROJECTS

Nautica

- Created a 3D game using WebGL and ThreeJS involving a ship travelling the ocean, collecting treasures, and destroying enemy ships

Shell

- Created a Linux shell from scratch using C
- Added functionality for most commonly used commands (cd, ls, etc.), along with support for foreground and background processes and signals

xv6 OS

- Tweaked the xv6 operating system by adding system calls - one to trace the systems calls made by a command, another to change the priority of a process
- Added two new schedulers - First Come First Served (FCFS) and Priority Based Scheduling (PBS)

Canteen Portal Website

- Created a canteen portal website using MERN stack
- Packaged and deployed the website using Docker

Bitcoin Simulator

- Designed a bitcoin simulator using C (group project - 5 people)
- Simulator supports multiple users, with transactions being stored as a blockchain, complete with hashing for security and verification

Algorithms Website

- Created a website as a guide to algorithms for beginners using HTML, CSS, and JavaScript

Parliament Database

- Implemented a miniature database based on the Indian Parliament System using MySQL and Python (group project - 3 people)
- Added functionality for common DBMS operations, while also handling relations between the tables so as to properly simulate a parliamentary system

Card game

- Designed a terminal-based card game called 99 using C++
- Game is played by a single user against the computer. Added full functionality for the computer to take the best possible move at each step

TECHNICAL SKILLS AND RELEVANT COURSES

Programming Languages: C, C++, Python, HTML, CSS, JavaScript, SQL, Bash

APIs and Libraries: OpenGL, WebGL, ThreeJS

Relevant Courses: Computer Graphics, Design and Analysis of Software Systems, Machine and Data Learning, Data Structures and Algorithms, Computer Systems Organization, Algorithm Analysis and Design, Operating Systems and Networks, Data and Applications