AMAN ASLAM SAYYAD
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ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Shri Balaji Madhyamik Vidyalaya and Junior College	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	92.5 %	2021
CLASS X	My School	CBSE	87.8 %	2019

Subjects / Electives	Data Structures and Algorithm, Microprocessor Techniques, Theory of Computation, Linear Algebra, Rapid Prototyping Practice Using Object Oriented Programming
Technical Proficiency	C Programming, C++ Language, Github, Object-Oriented Programming (OOP), Java, MySQL

PROJECTS

Effecient Insertion Operator for Ridesharing problem - Data Structure and Algorithm **Apr 2023 - Jun 2023**
Github Repository Link

C | Segment tree | Linked List | DP table | Makefile

Implemented segment tree(data structure) based Dynamic programming algorithm to reduce the time complexity from O(n^3) to O(nlogn) of insertion operator in Ridesharing problem and tested for different routes.

Binary Calculator(BC) - Data Structure and Algorithm **Feb 2023 - Mar 2023**
Github Repository Link

C | Stack | Linked List | Makefile

This project introduces a Binary Calculator(BC) that utilizes data structures like stack and linked list to perform high-precision arithmetic computations on larger numbers.

Medical distribution App - Android Development **Apr 2023 - Jun 2023**
Github Repository Link

Built an app which can be used for for Medical stores to order the medicines from medical distributors.

POSITION OF RESPONSIBILITY

Software Developer - Satellite club(CSAT) COEP **Dec 2022 - Present**
CSAT is a COEP'S satellite initiative project to build the small satellite co lab with ISRO.

As a software developer at CSAT COEP, my primary role is to develop, implement, and simulate the Attitude Determination and Control System (ADCS) logic for our satellite . This entails creating and refining algorithms that enable precise maneuvering and orientation control of the satellite.

Specifically, I have focused on the saturation aspect of the reaction wheel, which serves as an actuator responsible for maneuvering the satellite in the pitch axis. It is crucial to address this issue effectively. To tackle it, I have devised a unique logic that effectively handles the saturation problem in the reaction wheel.

To ensure the effectiveness of my approach, I conducted extensive simulations to validate and analyze the results. By carefully studying the simulation outcomes, I have been able to identify areas for improvement and make necessary updates to enhance the satellite's orbit maneuvering and orientation control system.

Coordinator - COEP Zest '23 **Aug 2022 - Feb 2023**
Zest, a national-level sports competition, takes place at COEP and is organized by COEP students. As part of the event, we developed an Android app to streamline various aspects of the competition, like to schedule of upcoming matches, update live scores in real-time, and access past match scores. My specific task was to create a timeline page for the matches using a recycler view.

COMPETITIONS

Code Junkie **Dec, 2023**
Code Junkie was a coding competition hosted on HackerRank, where participants were presented with a single problem statement and given a duration of one hour to solve it. We used 2D array and recursion technique to solve question.

Retracer **Jan, 2023**

Retracer was a coding competition consisting of two rounds. The first round focused on logical reasoning problems, while the second round featured two programming problems, where we passed good test cases for those questions.

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
MHTCET	Sep 20, 2021	99.84 Percentile
Jee Mains	Feb 24, 2021	97.89 Percentile

EXTRA CURRICULAR ACTIVITIES

Drawing, Kabaddi, Volleyball, CSI club member, ASCI club member

LANGUAGES KNOWN

English, Hindi, Marathi