



MEHUL ARORA

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EDUCATION

Stanford University

B.S. Computer Science
Class of 2023

Relevant Coursework:

- CS 106B: Programming Abstractions
Autumn 2019
- CS 107E: Computer Systems from the ground up
Winter 2020
- CS 103: Mathematical Foundations of Computing
Winter 2020

SKILLS

C/C++ · Python · Arduino · Javascript ·
LaTeX · HTML/CSS · R

Technologies/Frameworks

Git · Linux · Django · Flask · ReactJS ·
MySQL · MongoDB

ACTIVITIES

Stanford Students Space Initiative (SSI)

Webmaster

December '19 - Present

Stanford Students Space Initiative (SSI)

Co-lead, Balloons Launch Ops

November '19 - Present

XINO - School Computer Club

President

May '18 - May '19

School Senate

Head Boy

May '18 - May '19

Vice Head Boy

May '17 - May '18

SELECTED PROJECTS

- **Abridge** - AngelHack '18
Developed Web platform in Python to takes notes seamlessly from speech with a 3-member team.
- **Pathfinder Visualizer**
C++ program to visualize working of pathfinding algorithms such as Depth First Search, Breadth-First Search and Dijkstra's algorithm in the console.
- **MosquitoLoon**
Stanford Space Initiative in collaboration with Prakash Lab to fly mosquitos to low altitudes on a balloon to study their morphology
Developed an imaging algorithm in Python using a Raspberry Pi camera module.
- **Boggle Game**
Used C++ backtracking algorithms to develop single-player Boggle.
- **Requirement Tracker**
Used Flask and SQLite3 to build CRUD application for college students to keep track of academic requirements and courses.
- **Hindi Scrabble Anagrammer Web Application**
Developed web application in JavaScript to provide education to children devoid of resources.

HONORS

- *Qualifier*, Indian National Olympiad of Informatics '17-'18
- *National Rank 2*, SouthEast Asian Mathematics Olympiad '17-'18
- *#21 ('17), #22 ('18)* World Youth Scrabble Championship
- *Scholar*, National Talent Search Examination '16-'17
- *Scholar*, Kishore Vigyaan Protsahan Yojana '17-'18

RESEARCH

- **Realizing a Microprocessor as a Particle Sensor**
Participant, CERN Beamline for Schools
- **Space Settlement Design Competitions**
Honorable mention, NASA AMES SSDC '16.
1st runners-up, Asian Regional SSDC '15.

WORK EXPERIENCE

EduTech Foundation

Head of Operations, September '18 - May '19

Course Mentor, May '17- September '18

- Created courses about the operation of basic technology in Hindi
- Introduced the concept of "Edutainment" for effective learning.