

EDUCATION

International Institute of Information Technology, Bangalore, <i>Btech & Mtech Computer Science and Engineering - CGPA 3.51 Out of 4</i>	June 2025 (Expected)
Rawat Public School, Jaipur <i>Class 12 CBSE Board Examination - Percentage - 95.4%</i>	2020
Aditya Birla Public School, Rawan <i>Class 12 CBSE Board Examination - Percentage - 95.6%</i>	2018

EXPERIENCE

Research Intern Cognitive Science Lab, IIIT Hyderabad <i>Data Science, Machine learning, Music Information Retrieval</i>	May 2022 — Ongoing
<ul style="list-style-type: none">Working on the Music and Depression project under Professor Vinoo Alluri.Working with song Lyrics using various NLP techniques to identify certain features correlating with the risk of depression	
Student Software Developer IIITB Summer of Code <i>Flutter, Firebase, Open Source</i>	June 2022 — Ongoing
<ul style="list-style-type: none">Working on the FoodFast project as 1 of the 2 student contributors selected from my college for the project.Working with flutter and related technologies like firebase for building a canteen food ordering application from scratch.	

PROJECTS

Music Listening trend analysis during covid Link <i>Music Information Retrieval, Data Science, Pandas, Numpy, Seaborn, Spotipy</i>	Feb 2022 — March 2022
<ul style="list-style-type: none">Created a dataset by retrieving information of various acoustic attributes of the daily top 50 US songs from spotify.Did Trend analysis and established a relationship between average danceability of songs and spread of covid waves.	
Legend of Jagger (2D RPG game) Link <i>C++, SDL2, SDLmixer, SDLImage, TTF, Object-Oriented Programming</i>	Nov 2021 — Jan 2022
<ul style="list-style-type: none">Made a fully functional 2D RPG game with a linear storyline, location based fight sequences, open world and scoring functionality.I worked on Map design, Animations, Movements, Randomized Event triggering and Integrated the fight sequences.Also came up with a $O(1)$ algorithm for collision avoidance, to replace the conventional $O(n^2)$ algorithm.	
Pandemic Simulator Link <i>Python, Tkinter, Matplotlib, BeautifulSoup, Scipy</i>	Jan 2021 — March 2021
<ul style="list-style-type: none">Made a Python Program that can simulate the spread of a pandemic based on certain input variables.I worked on making a GUI, Integrating various parts of project into the GUI and facilitating the graph plotting and comparing functionality.	
Block-chain based healthcare app Link <i>Solidity, Truffle, ReactJS, Web3JS</i>	Feb 2022 — Feb 2022
<ul style="list-style-type: none">Built an ethereum smart contract based web application for flash consultation and appointment booking functionality for a 36hr hackathon.I worked on the patient side back-end and designed the front-end of the website.	
Inter! [View] Link <i>MongoDB, ExpressJS, ReactJS, NodeJS, fetch API, CSS, HTML5, UI/UX</i>	Oct 2021 — Oct 2021
<ul style="list-style-type: none">Made an anonymous Interview Portal aimed at removing bias where the interviewer can only judge a candidate based on their accomplishments and real time interview.I worked on designing the Front-end of the website along with integrating database and other tech stack to the front end.	
ColorSwitch Game Link <i>JavaScript, HTML</i>	March 2021 — March 2021
<ul style="list-style-type: none">Made a functional 2D game for a 30hr hackathon.I worked on simulating the gravity and generating the bouncing physics of the ball	

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Vatsal Dhama

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SKILLS

Languages: C, C++, Java, Python, Kotlin, Javascript, HTML5, CSS, SQL, Solidity, LaTeX
Tools: Unix shell, VS Code, Android Studio, Github, Ganache, Metamask, Figma
Technologies/Frameworks: Pandas, Numpy, MERN Stack, Web3, Fetch API, Matplotlib, Tkinter, SDL, Linux, Git, Truffle

ACHIEVEMENTS

- Second Runner Up GDSC Hackathon** | Issued by Google Developer Students Club @IIITB Jan 2022
• Second Runner Up team for Kotlin android development Hackathon.
- Rawat Gaurav Award** | Issued by Rawat Public School, Jaipur Feb 2021
• Given for all-round performance in High School.
- Test Score: JEE Mains** | Issued by National Testing Agency Sept 2020
• Secured All India Rank of 4101 with 99.65 percentile in Joint Entrance Exam.
- Certificate of Merit** | Issued by Central Board of Secondary Education May 2018
• Scored a perfect 100/100 in 10th Board Mathematics exam.
- All rounder Award** | Issued by Aditya Birla Public School, Rawan Nov 2018
• Given for all-round performance in High School.

POSITIONS OF RESPONSIBILITY & CO-CURRICULARS

- Core Member | SquareOne** Oct 2021 – Ongoing
• Part of a 6 member team, that was responsible for the smooth onboarding of the junior batch along with introducing them to the college culture and academics.
• Planned and Organised over 20 unique events, technical workshops, conferences, sports and cultural events.
• Designed the yearly college handbook.
- Core Member | Taber (music club @IIITB)** Apr 2022 – Ongoing
• Part of my college's music club core committee.
• Guitarist and backing vocalist for the college band.
- Core Member (Design Committee) | TedxIIITBangalore** Jan 2022 – Ongoing
• Part of the Design team for the committee.
- Core Member | Quizzing team of Aditya Birla Public School, Rawan & Hirni** Jan 2014 – Feb 2018
• Organized and participated in various Quizzing competitions.
• Received the GK Genius Award twice in the years 2016 and 2015 for contribution to the Quizzing Society of my school.
• Finalist of Inquizitor 2016, a national level Quiz contest.
• Winner of Heritage Quiz 2018 @KPS, Raipur