

# Aryan Jain

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## EXPERIENCE

### EBOOK READER & TRANSLATER | WEBSITE DEVELOPER

Jan 2021 - Apr 2021 | Product Labs of IIIT Hyderabad

- A **MERN** webapp co-built by me with my team-mates in collaboration with Product Labs of IIIT Hyderabad, that can translate an uploaded English book pdf to Hindi/Telugu language.
- **Hosted Website:-**  
*eBook Reader & Translator*

## EDUCATION

### IIIT HYDERABAD

B.TECH. IN COMPUTER SCIENCE  
Aug 2019 - May 2023  
Hyderabad, India  
CGPA: 8.32 / 10.0

### AKLANK PUBLIC SCHOOL

SENIOR SECONDARY  
2018 - 2019 | Kota, Rajasthan  
CBSE XII Board: 92.60 %

## COURSEWORK

- Data Structures & Algorithms
- OS & Networks
- Machine Data & Learning
- Design & Analysis of Software Systems
- Database Management & Applications
- Computer Graphics
- Linear Algebra
- Probability & Statistics

## SKILLS

### LANGUAGES & SCRIPTING

• C • C++ • Python  
• HTML5 • Javascript • Bash

### FRAMEWORKS

• Node.js • React • Express • Bootstrap

### MISCELLANEOUS

• MySQL • MongoDB • Git  
• Three.js(WebGL) • OpenGL • Latex

## COMPETITIVE CODING

- Love participating in coding competitions like **CodeJam**, **Kickstart**, and others on **Codeforces** and **CodeChef**.
- Reached a peak rating of 1715 on CodeChef and 1511 on Codeforces.  
**CodeChef:** rockarya\_iiith  
**Codeforces:** Rockarya\_ IIITH

## SELECTED PROJECTS

### C SHELL | Aug 2020 - Sept 2020 | C

- Created a Unix based **CLI** interface using syscalls, which supports multiple commands per line, chained redirection, piping, signaling etc.

### MACHINE LEARNING ALGORITHMS | Spring 2021 | Python

- Implemented various Machine Learning Algorithms & Concepts including **Genetic Algorithm**, **Linear-Regression & Analysis of Bias-Variance trade-off**, **Value Iteration Algorithm & Linear Programming**, and **POMDPs & SARSOP**.

### COACHING DATABASE | Sept 2020 - Oct 2020 | MySQL, Python

- Developed a terminal based Database Management System, for Coaching Industry using MySQL and built a **CLI** using Python PyMySQL.
- The CLI covers all **CRUD** operations along-with special query functions like min/max/sex-ratio etc.

### BRICK BREAKER GAME | Feb 2021 - Mar 2021 | Python

- Built an arcade terminal-based game(similar to classic brick breaker), following **OOPS** concepts.
- Used classes and objects to write modular code, therefore making it extensible to new features.

### MODIFIED-XV6 | Oct 2020 | C

- Tweaked the xv6 OS and added few system and user calls.
- Also implemented 3 scheduling algorithms: **FCFS**(First Come First Serve), **PBS**(Priority Based Scheduling) & **MLFQ**(Multi-Level Feedback Queue).

### CONCURRENCY | Oct 2020 | C

- Used concepts of **Multi-Threading**, **Mutex locks**, **Semaphores & Process Synchronization** to implement the concurrent simulation of 2 real life systems: **Event Management and Vaccine Production & Distribution**.

### JOB PORTAL | Jan 2021 | React,MongoDB,Node,Express

- Developed a Web Application following **REST** principles based on **MERN** stack.
- Recruiters from various companies can create job listings based on their requirements whereas applicants have the option to apply for different job profiles.

### SKY FORCE DASH | Apr 2021 | Three.js

- Designed an interactive game inspired from the Sky Force using **Three.js** library.
- The player-plane has missiles to shoot the enemy-plane and collect diamonds to increase health and achieve high score.

## ACHIEVEMENTS

2019   **JEE Advanced AIR-2112**  
2019   **JEE Mains AIR-841**  
2018   **KVPY**(Kishore Vaigyanik Protsahan Yojana) Scholar(12th SX stream)  
2016   Qualified **NTSE**(National Talent Search Examination) Stage-1