

# ARCHIT JAIN

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## EXPERIENCE

### COVIDTODAY

Frontend Developer | React, Material-UI

July 2020 – Sept 2020

Remote

Worked as a Open-Source contributor for a multidisciplinary volunteer team on technology enabled response to the COVID19 pandemic in India.

### OSDG-IIITH

Full Stack Developer | React, MongoDB, FastAPI

May 2020 – Sept 2020

Remote

Contributed as a Full stack developer for my college's club website as a summer activity with a team of my batch mates under the mentorship of seniors.

## SELECTED PROJECTS

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

A platform where job recruiters can post the jobs and applicant can apply for it and allow recruiters to shortlist/reject/accept there application based on applicant's skills and resume uploaded.

### BESTIE SPRING 2021 | Flutter, Firebase, Agora, Razorpay

A flutter android app where users can call over internet to a verified expert to discuss about a specifics topic and charged on per minute basis.

### MACHINE LEARNING ALGORITHMS SPRING 2021 | Python

Compilation of implementation of various machine learning algorithms and concepts including genetic algorithm, linear regression and analysis of bias-variance trends, value iteration, decision trees and POMDP.

### DATABASE DESIGNING AND CLI MONSOON 2020 | Python, MySQL

A database-project in MYSQL and a CLI via python PyMySQL for a Hotel Management Company. It covers all CRUD operations on for all entities with Normalization.

### LINUX SHELL MONSOON 2020 | C

A command line interface based on the Unix Bash shell. Supports multiple commands per line, signal handling, and chained redirection and piping.

### MULTITHREADING EXAMPLES MONSOON 2020 | C

Used concepts of multithreading, mutex locks, semaphores and process synchronization to implement two real life systems :

- A system that simulates event management by having 3 distinct kinds of performers and multiple stages to perform. Also implemented timed wait.
- A system that simulates production of vaccine by multiple companies with different effectiveness, supplied to multiple zones which was used to vaccinate students arriving at random times.

### MODIFYING THE XV6 OPERATING SYSTEM MONSOON 2020 | C

Tweaked the xv6 Operating System to add several new scheduling algorithms, namely first-cum-first-serve, priority-based and multi-level-feedback-queue, along with a couple of system calls.

### SKY FALL SPRING 2021 | WebGL, Threejs

A 3D web-based game where user have limited missiles to explode enemy planes and have to dodge bunch of obstacles as game progress.

### AMONG THEM SPRING 2021 | OpenGL, C++

A game inspired from Among Us where player have to go from one exit to other in random maze and collect objects to increase the points and stay away from imposter which will be moving towards you from shortest path possible.

### RIVER CROSSING GAME MONSOON 2019 | Python, PyGame

A 2 player game like river crossing implemented using OOPS concepts. Has multiple stationary as well as moving obstacles like thorns and sharks with time countdown for scoring.

## EDUCATION

B.Tech in CSE

IIIT HYDERABAD

2019 - 2023(Expected)

## PROGRAMMING

### Languages

C C++ JavaScript Python  
Flutter HTML/CSS Bash

### Frameworks

Node React Express Git  
Bootstrap jQuery Django  
Flask Pygame FastAPI

### Miscellaneous

MySQL MongoDB Firebase  
OpenGL WebGL

## COURSEWORK

Data Structures and Algorithms  
Operating Systems and Networks  
Design and Analysis of Software Systems  
Machine, Data and Learning  
Data and Applications  
Computer Systems Organization  
Linear Algebra

## ACHIEVEMENTS

JEE Main 2019 AIR 128

JEE Advanced 2019 AIR 2128

## LEADERSHIP ROLES

### CLUB COORDINATOR

Astronomy Club, IIIT Hyderabad

May 2021-Present

Organising and managing various events.

### STUDENT MENTOR

IIIT Hyderabad

Manage a week-long online induction program for freshmen of batch 2020.