

# Madhur Rao

✉ madhur\_r@ph.iitr.ac.in | 🌐 sickaada | 🌐 madhur | ✉ r.madhur1300@gmail.com

## INTERN(BACKEND) | REPHRASE.AI (JULY - AUG'21)

Django, Flask, Python

- Created pipelines to automate training of an ML model.
- Created a whatsapp bot using wati and zapier.
- Implemented dashboard for live updates using GraphQL Subscriptions.

## INTERN (FULL STACK DEVELOPER) | FOLLY SYSTEMS (SEPT'21 -JAN'22)

Python, AWS, Terraform

- Working on automating deployment of code on cloud services like aws, gcp.
- Developing terraform code generator.

## UPCOMING BACKEND AND DEVOPS INTERN | HEVODATA

## PROJECTS

### COLLATE 🌐 | CHROME EXTENSION TO EXECUTE CODE

ExpressJS, Docker

- Chrome extension that detects the programming language of a code snippet on its own, executes it using docker images at the server end and shows the result on your browser.
- Implemented the back-end of that project.
- Docker containers are spawned for each run request from the chrome extension.
- Won the **first** prize in the Syntax Error Hackathon, 2021.

### E-CERTIFICATE 🌐 | E-CERTIFICATE IITR

Django, React, AWS Lambda

- eCertificate Portal for IIT Roorkee, allowing students to request the certificate.
- Built a highly available pipeline to asynchronously generate certificates using SQS and lambda.

### NERDIGRAM | QUIZZING PLATFORM FOR PHYSICS NERDS

Django, ReactJS

- Nerdigram is a quiz platform targeting an international audience.
- Implemented the login system using google-oauth and User management in Django.
- Created various RESTAPIs like scoreboard, timer etc.

### ILS-MOU 🌐 | OFFICIAL WEBSITE FOR MoU

ReactJS

- A website created for an event Mysteries of Universe and organised by Physics and Astronomy Club, IITR.
- Lead Developer and Maintainer

### LEARN CHESS 🌐 | A CHESS ENGINE WITH INCREASING DEPTH

Java, Javascript, Bootstrap

- Learn Chess is a platform for learning chess powered by a custom built chess engine that keeps on increasing in difficulty.
- The engine works on the Mini-Max algorithm and alpha-beta pruning.
- Won the **first** prize in the Syntax Error Hackathon, 2019.

## EDUCATION

### IIT ROORKEE

BACHELOR OF TECHNOLOGY IN  
ENGINEERING PHYSICS

Expected May 2023 | Roorkee, India

## SKILLS

### PROGRAMMING

- Python • JavaScript • C/C++
- PHP • HTML • CSS

### TECHNOLOGY

Git/Github • Docker • AWS • Linux •  
UNIX • Windows • BASH

## ACHIEVEMENTS

**Syntax Error Hackathon** | January 2021

Ranked **1st** using Collate

**Idea Pitch, Raionzo** | October 2019

Ranked **1st**.

**Syntax Error Hackathon** | August 2019

Ranked **1st** using Learn-Chess.

## SOCIETIES

### MDG 🌐

*Project Manager*

May'21- Present

Participated in hackathons, Tech Talks  
and contributed to open source  
development.

### PaAC

*Web Developer*

December'20- May'21

Physics and Astronomy Club of IITR.

Organised various events, participated in  
hackathons.

### eSports IITR

*Co-founder and Joint Secy*

Oct'21 - Present

Organised various Inter-IIT and Intra-IIT  
esports tournaments for games like  
CSGO, Valorant etc.

### NCC

*Cadet*

August'19 - May'20

Participated in various activities  
organised in IITR.