

Mayank Raj

Pre-Final Year | Computer Science & Engineering | IIT Jodhpur
raj.6@iitj.ac.in | +91-9521197358

EDUCATION

IIT JODHPUR

B. TECH. IN COMPUTER SCIENCE & ENGINEERING

Expected May 2021 | Jodhpur, India

CURRENT CGPA: 9.77 / 10

Department Rank: 1

K.V. NO. 2 AFS, JODHPUR

BOARD - C.B.S.E. | CLASS 12

Grad. May 2017 | Jodhpur, India

Percentage XII - 94.8/100

K.V. DALHOUSIE

BOARD - C.B.S.E. | CLASS 10

Grad. May 2015 | H.P., India

CGPA X - 10/10

COURSEWORK

COMPUTER SCIENCE CORE

- Data Structures & Algorithms
- Object Oriented Analysis & Design
- Computer Programming
- Digital Logic and Design
- Software Engineering
- Computer Architecture and Organisation
- Theory Of Computation
- Algorithm Design and Analysis*
- Compiler Design*
- Operating System*
- Data Communication*

AUDIT

- Ethereum and Solidity

* Ongoing Courses

SKILLS

PROGRAMMING

Proficient:

C/C++ • Python

Familiar:

Javascript • Solidity • Ruby

WEB TECHNOLOGIES

HTML • CSS • Bootstrap

FRAMEWORKS

Django • Rails

Solr • Nutch • Scrapy

UTILITIES

Git • JetBrains IDE

LINKS

Github:// MayankRaj23

LinkedIn:// mayankraj23

Interviewbit:// Mayank Raj

PROJECTS

DOMAIN SPECIFIC SEARCH ENGINE | B. TECH. PROJECT

Jan 2019 - Present | Guide: Dr. Sumit Kalra | Open Sourced at [Github](#)

- Developed a domain-specific search engine - **AgroSearch** on Solr, with 1.5M+ pages indexed for searching, on multiple Solr instances.
- Built web crawlers on Python Scrappy and Nutch, to work on concepts of **SEO**, **Web document Indexing** and **secure crawling**.
- Technologies used: **Solr, Hadoop, Nutch, Scrapy, Django**.
- Planning to improve the search time **upto 5 times** in the second phase by using Machine learning algorithms for page ranking and automated crawling.

BLOCK-VOTE | BLOCK-CHAIN BASED VOTING SYSTEM

July 2019 - Present | Microsoft Code.Fun.Do 2019 Project | [Project Link](#)

- **Phase 1:** Provided **remote voting**, **automatic voter creation** and **expedite vote counting mechanism**.
- Implemented secure voting and eligibility check of the voter and the candidate.
- Tools used are - **Solidity, React, Azure Blockchain Service**.
- **Phase 2:** Expanding the project and involving features of news validation and review candidate's manifesto.

AGRISYNC | SOFTWARE ENGINEERING PROJECT

Feb 2019 - May 2019 | MVC based development project

- Designed an **architecture** for connecting farmers with experts. Implemented backend in Django in collaboration with 3 other programmers.
- Tools Used: **Django, HTML5, Javascript, Travis**.

SENTINEL | COMPETITIVE CODING PROGRESS MONITOR APPLICATION

August 2018 - Dec 2018

- Created a coding progress monitor application on **Ruby** using codeforces API.
- The application tracked user's day-to-day sport programming growth and did a topic-wise analysis.

AWARDS AND ACHIEVEMENTS

- **Department Rank 1** in Computer Science Department as well as **Batch Rank 1** in UG - 2017 batch with a **GPA of 9.77**.
- Secured a **SGPA score of 10/10** in semester III
- Received **Academic Distinction Awards** from the Institute.
- Among the top 0.2 % percentile of 1.4 million applicants in JEE-Advanced 2017.
- 2nd Inter-IIT Cultural Meet - **Bagged 5th position** in Short-film making Comp.
- 3rd Inter-IIT Cultural Meet - **Bagged 4th position** in Screenplay Writing Comp.

POSITION OF RESPONSIBILITY

STUDENT GUIDE | COUNSELLING SERVICE

July 2018 - May 2019

- Helped 10 freshmen students to make the transition into college life.
- Helped organize orientation program for 240 freshmen students.

VICE-CAPTAIN | FRAME X

July 2018 - May 2019

- Organising and conducting the events of the film - making, script writing and representing the institute in Inter IIT and other institute level competitions.

CORE-MEMBER | OFFICE OF STUDENT PLACEMENT

April 2018 - Present

- Help maintaining cordial relations with affiliated companies.
- Expanding opportunities for students for interns and jobs.