

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: 9.69 / 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
- Digital Logic and Design
- Software Engineering
- Computer Architecture and Organisation
- Theory Of Computation
- Algorithm Design and Analysis
- Compiler Design
- Operating System
- Data Communication

MATHEMATICS

- Probability, Statistics & Random Processes
- Financial Engineering
- Ordinary Differential Equations

SKILLS

PROGRAMMING

Proficient:

C++ • Python • Java

Familiar:

Javascript • Solidity

FRAMEWORKS

Django • ReactJS

Apache Solr • Mockito • Spring

UTILITIES

Git • JIRA • Apache Phoenix

LINKS

Github:// MayankRaj23

LinkedIn:// mayankraj23

Interviewbit:// Mayank Raj

WORKING EXPERIENCE

SOFTWARE DEVELOPER (SDE) INTERN | ARCESIUM PVT. LTD.

April 2020 - June 2020 | Fair Usage Of Queues and Event-Driven Incremental Data Processing

- Modified the existing infra used in the firm to employ a fair usage strategy for different types of messages in queues.
- Reduced the waiting time of items in queue by 33%.
- Changed the current architecture from scheduled tasks to event-driven processing to reduce redundancy from database.
- The implemented strategy saved 1.5GB database space per month and avoid duplicacy of 11 mn. records.
- Technologies used: ActiveMQ, Spring Batch, MyBatis, Mockito, ReactJS.

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 - Sep 2019 | 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.

AWARDS AND ACHIEVEMENTS

- Department Rank 1 in Computer Science Department and Batch Rank 1 in UG - 2017 batch with a GPA of 9.69.
- Secured a SGPA score of 10/10 in semester III
- 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.