



# MD ASIF ANWAR



## ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Textile Engineering	Indian Institute of Technology, Delhi	6.95
2017	CBSE	SAM SECONDARY SCHOOL	78.6%
2014	CBSE	PARK MOUNT PUBLIC SCHOOL	10.0/10.0

## SCHOLASTIC ACHIEVEMENTS

- Got Selected for **Rahmani Super 30** after a rigorous four-tier selection process; In top 30 among one lakh applicants (2014).
- Recipient of **Merit-cum-Means (MCM)** scholarship from IIT DELHI for the last 3 semesters in a row for academic excellence

## PROJECTS

- **Library Management System**, Prof. Maya Ramanath, IIT Delhi (February, 2020 - March, 2020)
  - Developed a simple web application using Flask and **PostgreSQL** as a course project of DBMS in group of 3 students
  - psycopg2 is PostgreSQL database adapter in python, used it to supports raw queries and to connect the server to database
  - Analyzed the schema and queries; created materialized **views** and **indexes** specific to the workload to optimize the queries
- **Data Structures and Algorithm**, Prof. Subodh Kumar, IIT Delhi (July, 2019 - November, 2019)
  - Implemented classical Producer-Consumer problem using data structures (Priority Queue, Circular queue, Stacks)
  - The multithreaded implementation allowed synchronization during reading and modifications in the buyer/seller lists.
  - Implemented graph data structure algorithm to determine topological space using triangulation approximation method
  - Implemented project management (Job scheduler) using data structures (Red Black Tree, Max Heap, Priority Queue)
  - Maintained student database using LinkedList, implemented methods to retrieve and update data for specific students
- **Software Engineering - vSewa** Prof. Suresh C Gupta, IIT Delhi (January, 2020 - Current)
  - Developing an android app called **vSewa** from scratch using firebase for database management, storage and authentication
  - There are people in the society who required sometimes voluntarily help, and one who would like to volunteer in their free time
  - vSewa provide a platform to help those people by connecting them with volunteer and also increase awareness in people
- **3D Scanner using ToF sensor**, Prof. Kolin Paul, IIT Delhi (January, 2020 - Current)
  - Leading a team of 3 fellow third-year students; developing a 3D scanner using Raspberry Pi and **Time of Flight** sensor
  - Design and fabricated a wooden round rotating stand, with up and down movement of tof sensor using two servo motor
  - ToF sensor measures distance between a sensor and an object, based on the time difference, plot the object using distance
- **Search Engine**, Prof. Maya Ramanath, IIT Delhi (April, 2018)
  - Developed an inverted index search engine capable of searching for queries such as phrase or any of the given keywords

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, PostgreSQL, C++, Ocaml,
- **Softwares** : Autodesk Inventor, Android Studio, Internet of Things
- **Relevant Courses Undertaken:-** Data Structures and Algorithms, Probability Theory and Stochastic Processes Database Management System(undergoing), Software Engineering(undergoing)

## INTERNSHIPS

- **Forum for Democracy, New Delhi**, Field Research Scholar (May, 2018 - July, 2018)
  - Undertook summer internship in the organisation and collaborated with Delhi Government to conduct surveys across Delhi
  - Conducted surveys across different locations in South Delhi to find out the various problems faced by the local residents
  - Compiled and analysed the data from surveys and recommended quick and implementable solutions to the government
  - Awarded **Certificate of Appreciation** and stipend for excellent work during the Internship period by the Delhi Government

## EXTRA CURRICULAR ACTIVITIES

- **Executives, IITD Alumni Association(2018-2019):** Worked as an Executive for a period of one year.
  - Organised and managed the cultural event, **Nagme** and hosted total of 100+ alumni and their family members during that
  - Managed a **hackathon event** organised by **Paytm** for solving real world challenges and problems using Machine Learning
  - Managed all the arrangements for the **hackathon event** by **Paytm** that hosted a total of 350 students from Delhi colleges
- **Social Endeavours:** Volunteer at **National Service Scheme (NSS)**, IIT Delhi
  - Volunteer at the weekly **teaching program** in Kendriya Vidyalaya School, IIT Delhi under the **Vidya Teaching Project**
  - Participated in the initiative for helping students of poor background in their studies for two consecutive semesters
  - Taught English, Mathematics and Science to students belonging to class X and helped them get good grades in exams