





MUDIT AGARWAL

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EDUCATION

Degree	Institute / Board	Year	CGPA / %
B.E. in Computer Science and Engineering	BITS Pilani Goa	2017 - 2022 (Expected)	8.34 / 10 
M.Sc. in Economics	BITS Pilani Goa	2017 - 2022 (Expected)	8.34 / 10 
All India Senior School Certificate Examination	Birla High School - CBSE	March, 2016	92.4 % 
All India Secondary School Examination	Birla High School - CBSE	March, 2014	10 / 10 

SKILLS AND EXPERTISE

- **Courses:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Database Systems, Computer Networks, Information Retrieval
- **Technical Proficiency:** C++, Java, Python, Django Framework

INTERNSHIP/WORK EXPERIENCE

Walmart Global Tech

May 2021 - Present

- Kubernetes Utility: Created an API that can be used as a maven dependency by other applications to trigger a K8's Job in the targeted namespace of the specified cluster.
- Technologies used: *Java, Kubernetes API client*

Web Developer | AUGSD, BITS Goa

Jan 2020 - Present

- Created a portal for the registration of elective courses for ME students of the college (~500 applicants) from scratch
- Technologies used: *Django, python3, JS*

Back-end Web Developer | Practice School Division, BITS Goa

Feb 2020 - Present

Collaborated in a group of 8 students to build a portal for the Practice School Division where students can place requests for transfer from practice school to thesis or vice versa and the professors can reject or approve them. This application was used in all the campuses of the university by the final year students(~3000). Built the following features:

- Export tool to download the details stored in database.
- Email Notification System to notify HoDs with the details of the new applicant.
- Technology used: *Django, python3*

Web Developer | Department of Planning and Statistics

May 2019 - July 2019

- Made a website to store statistical E-Books provided by the department in a modular format
- Technology used: *Django, python3*

Subject Matter Expert | Chegg Inc.

Mar 2019 - June 2020

- A freelance job to solve questions on statistics and probability.

PROJECTS

Chat Application with Encryption

Mar 2021

- Consists of a client application and a server application
- Two clients can connect via the server and chat. The sender encrypts(in RSA) the chat using the public key of receiver, the server polls the sender's chat for reading and writes it in the socket of the receiver, and the receiver decodes it using its private key
- Technology Used: *Socket Programming in C*

Context Based PDF Search Engine

Dec 2020

- This application allows user to search for top 10 sentences, ranked by the **vector-space model**, within the PDF which may not be exact matches to the queries but may still be relevant.
- Technology Used: *python3, pymupdf*

Exam Schedule Retriever - Web Application

Jul 2019 - Sep 2019

- Preprocessed Registration and Time Table data using *Numpy and Pandas*
- Used this data to host a webApp so that students can retrieve their exam schedule using their college ID as the query.
- This web application was widely used and appreciated in the campus.
- Technology Used: *Django, python3, JS*

POSITIONS of RESPONSIBILITY

Teaching Assistant, Department of Computer Science, DSA - BITS Goa  **Jan 2020 - May 2021**

- Created a video tutorial on Advanced Binary Search and solved doubts of students during lab sessions.



Teaching Assistant, Department of Computer Science, CP - BITS Goa  **Jan 2020 - May 2020**

- Assisted in creating, conducting and evaluating lab sessions for the Computer Programming course.

Teaching Assistant, Department of Computer Science, OOP - BITS Goa  **Jan 2020 - May 2020**

- Assisted in creating, conducting and evaluating lab sessions for the Object Oriented Programming Course.

EXTRA CURRICULAR ACTIVITIES

- Competitive Programming: **Peak Rating 1631** on Codeforces 
- **Youtube Channel**: Providing explanations to interesting problems found in Codeforces contests 

TEST SCORES

- Ranked 4714 in JEE Advanced 2017 out of 0.2 million participants (97.7 Percentile) 