Aditya Aditya

Bachelor of Technology
in Computer Science Engineering
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.76 (Till 4th Sem)	2020-2024
Senior Secondary	Central Board of Secondary Education	94.2%	2020
Secondary	Central Board of Secondary Education	93.2%	2018

EXPERIENCE

- **Scalelot Technologies**   *Dec 2022 - current*
  Django Developer
  − The task is to design a **REST API** using the **Django REST Framework** for the notification flow.
  − The REST API supports creating, editing, and listing all notifications using a filter, sort, and pagination and also allows the user to add a user list based on the logged-in user. API also facilitates scheduling dates and times for notifications, bill creation based on selected plans, and payment.

PROJECTS

- **Online Coding Platform| Django, HTML**   *June 2022 - July 2022*
  Personal project   **Github**

  * Built an Online Judge that runs code and judge if the given code is correct/wrong.
  * Implemented using **Python** and **Django** libraries to handle some in-depth features and provided users to keep track of their process by maintaining leaderboard having the last **10** submissions for each problem.
  * Integrated with **Docker** to make it secure from malicious code submitted by users and used **SQLite** database.

- **Railway Reservation System | Java, PostgreSQL**   *Oct 2022 - Nov 2022*
  Course Project   **Github**

  * The project involved designing and creating a database using **PostgreSQL** and a **multithreaded** server that supports concurrent client requests while maintaining the ACID properties of the database.
  * It required concurrent and socket programming using **Java**, as well as a thorough understanding of database design concepts.
  * The end result is a system with improved throughput and the ability to handle an increasing number of clients while still processing the same number of total requests.

- **Utility Based Cache Partitioning | C++**   *April 2022 - May 2022*
  Course Project   **Github**

  * Implemented an algorithm that will partition the cache efficiently in two-core setup according to utility of application running in the cores respectively.
  * Successfully reduced the miss rate by **7%**, increased **IPC** (Instructions per cycle), and decreased execution time.

- **Shift Resister Visualiser | HTML, CSS, Javascript**   *Oct 2021 - Nov 2021*
  Course project   **Github**

  * Created animation for different modes of input and output in shift registers.
  * It consists of PIPO, SIPO, SISO, ASR, LSR, ROR, and LOR and is configurable up to 4 bits.

TECHNICAL SKILLS

−**Programming Languages**: C/C++, Python, Java, HTML, CSS, Javascript
−**Frameworks/Libraries** : Django, Docker, SQLite, PostgreSQL, SQL, RISC-V Assembly, Git, Github, Linux, Bootstrap

KEY COURSES TAKEN

−: Operating System, OOPS, DBMS, Algorithm Design and Analysis, Computer Vision, Data Structure, Computer Architecture, Digital Logic Design , Discrete Math, Programming Paradigms, Probability and Statistics

ACHIEVEMENTS

- **Expert** at Codeforces **among top 2%** competitive programmers in India with username A_d_i_t_y_a1   *2022*
- **5 star** at Codechef **among top 0.7%** competitive programmers globally with username Unknown_81   *2022*
- Secured rank **394/4992** in ICPC India 2021 Preliminary Online Round   *2022*
- Secured rank **678/10350** in Google Kick Start Round E   *2022*
- Secured rank **51/18056** in Codechef starters 24   *2022*
- Secured rank **138/12943** in May Lunchtime   *2022*
- Secured rank **392/26111** in Codeforces Round 812 div 2   *2022*
- Secured rank **520/24126** in Codeforces Round 750 div 2   *2022*