

Rahul Saini

Indian Institute of Technology, Goa

Forth Year **Undergraduate, Mathematics and Computing**

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Leetcode: www.leetcode.com

Education

BTech, Mathematics and Computing , Indian Institute of Technology Goa	CGPA : 6.38/10	2021 – Present
Class 12, CBSE , Kendriya Vidyalaya no.2 Jalahalli East, Bangalore	Aggregate: 94 %	2020 – 2021

Experience

Interned at Cognam Technologies as a Java backend developer

(May 2024 – July 2024)

- Worked as a part of the DCC(Dynamic currency conversion) team at Cognam technologies.
- Worked with ELK stack mainly handling logs and visualizing the data using KIBANA for better application management and its efficient working by integrating web applications(mainly springboot) with ELK stack using FILEBEATS, did it with and without docker.
- Learned about springboot, kafka and made some APIs, also integrated kafka with ELK stack for monitoring purpose.
- Documented the whole process in detail for future references of the company.

B.Tech Project under Professor

(August 2024 – Present)

- Working in a team of two members under professor Sreejith AV on Carla Simulation which is being used for training and testing of autonomous driving systems.
- Developed simulation scripts in Python, utilizing libraries such as numpy, carla, cv2, time, etc.
- Initially worked on spawning and driving vehicles with different speed and different camera views.

Projects

Web application log management [Github]

(June 2024 – July 2024)

- Build a springboot application and directed logs generated by the application to ELK stack using filebeats and logback, thus streaming live logs.
- Applied filters and extra tags to the logs for easier distributed tracing, search and analysis on elasticsearch and kibana.
- Used Kibana to visualise the log data, distributed tracing of logs which helps to fix any microservice which is not so efficient.

Product Inventory [GITHUB]

(June 2024 – July 2024)

- Developed a Spring Boot application with Spring MVC to manage product information with functionalities for adding, deleting, and updating products.
- Implemented RESTful APIs to handle CRUD (Create, Read, Update, Delete) operations on products.
- Designed a user-friendly interface using Thymeleaf for managing products.

Email Spam Classifier [GITHUB]

(August 2023 – September 2023)

- Developed and implemented a highly accurate email spam detection system using machine learning algorithms to enhance email communication security
- Gathered and curated a diverse dataset of email messages, ensuring representation of spam and non-spam emails.
- Led the entire project, from data collection to model deployment.
- Achieved an accuracy of 97% on the test dataset.

Skills

Programming Skills: C, C++, Data Structures and Algorithms, MySQL, OOPS

Tools: Github, Overleaf, Google collab, MS Word, ChatGPT.

Web Skills: Springboot, Elasticsearch, Logstash, Kibana, Filebeats, Kafka, Docker, Postman

Relevant Coursework DataStructure, Algorithm Design, Software Tools, Web Services, Probability and Statistics, Numerical Analysis, Discrete Mathematics, Linear Algebra

Positions of Responsibility

Event management	Part of Cepheus event management team	(2022 – 2023)
Volunteer	Volunteer in Curtural fest(Cultrang) of IITGoa	(2022 – 2023)

Achievements

- Screened in candidate for NDA SSB interview (2022)
- Cleared JEE Advance with a descent rank (Top 1%) (2022)
- Represented my college in Inter IIT Sports Meet 2022 held at IIT Roorkee for Football (2022)

Extracurriculars & Hobbies

- Calisthenics, Competetive Programming are also my areas of interest and I actively take part in sports and competetive programming events.