

SAMAR SINGH

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	Dual Degree BTech, Metallurgical and Materials Engineering	IIT Kharagpur	8.56 / 10
2019	CBSE	Central Academy Senior Secondary School, Kota	94.2%
2017	ICSE	Loyola School, Jamshedpur	94.4%

INTERNSHIPS

Full Stack Developer Intern | Blume Global

[May'23 - Jul'23]

- Streamlined shipment data processing through a web application which reduced **10+** man hours of work per week
- Developed audit functionality using **Hibernate Envers** to track any modifications on each and every data value
- Implemented **JWT** token based authentication and performed **Integration Testing** for Spring Boot RESTful APIs

Data Science Intern | Exam Lounge

[May'21 - Jul'21]

- Developed a **Computerized Adaptive Testing** model which estimates a student's skill level in an exam in **real-time**
- Designed a Custom Mathematical Model to update the skill level of the student after each question attempted
- Achieved **83%** accuracy on estimation of IRT parameters of questions having **500+** responses using **Girth** module

PROJECTS

Breast Tumor Healthcare App | Guide: Prof. Ram Babu Roy [IIT KGP]

[Oct'22 - Mar'23]

- Created a **U-Net** model for predicting the tumor region from the ultrasound images obtaining an accuracy of **97%**
- Integrated the U-Net and classification models in a web app built using **React.js** and **Django Rest Framework**
- Developed a doctor **appointment scheduling system** and email notification feature of tumor classification report

AnyTime Food| Inter-Hall Opensoft | IIT Kharagpur

[Feb'22 - Mar'22]

- Created a scalable food delivery app using **Microservices Architecture**, functional even if data centre goes down
- Built **REST APIs** using **Django Rest Framework** for various microservices and wrote Unit Tests for each endpoint
- Utilized **RabbitMQ** for keeping microservices in synchronization and containerized each microservice using **Docker**

Internphile | Self Project

[Jun'21 - Jul'21]

- Curated information about CDC internships from over 100 seniors who had successfully gone through the process
- Presented the contents in the form of a website, which had over **2500 active users** and **35000 views** since uptime

AWARDS AND ACHIEVEMENTS

- Achieved a Peak Codechef and Codeforces rating of **2015 (5 stars)** and **1653 (expert)**, and **5 stars** at HackerRank
- Secured **5th** position among 200+ teams in a nation wide hackathon **Overnite** organized by Kshitij, IIT Kharagpur
- Ranked among the top **0.9%** in Joint Entrance Examination (JEE) Mains 2019 among 11.4 lakh candidates
- Ranked among the top **2.9%** in Joint Entrance Examination (JEE) Advanced 2019 among the 2 lakh candidates

SKILLS AND EXPERTISE

Programming Languages: C++ | C | Python | HTML | CSS | JavaScript | SQL **Familiar :** Java | Selenium
Libraries/Frameworks : C++ STL | React.js | Spring Boot | Django | Node.js | Bootstrap **Familiar :** Numpy | Pandas
Tools / Softwares : Git | Postman | MySQL Workbench | VS Code | Notion | Figma | Microsoft Office

COMPETITION/CONFERENCE

- Obtained a rank of **28** out of 9000+ participants in **Infinity2k21** organized by IIIT Pune held at CodeChef platform
- Secured **484** and **983** rank among 10000+ candidates in **Google Kick Start** Rounds D(2022) and H(2021) respectively
- Acquired global ranks **545** and **669** in the 112th and 110th Leetcode Biweekly (2023) among **29000+** participants
- Obtained a rank of **87** and **117** in **Codedrift** June 1.0 (2022) and 2.0 (2022) respectively among **5000+** participants
- Secured **4th** position among 18 teams in the Opensoft competition for the Inter Hall General Championship 2022
- Was among the **top 800** out of the 38000+ participants to reach the Parallel Elimination Round of **SnackDown 2021**

RELEVANT COURSES

Data Structures and Algorithms - DSA Self Paced Course | Django Backend Web Development | Udemy Complete Web Developer Bootcamp | Udemy A-Z Machine Learning | Data Analysis with Python

EXTRA CURRICULAR ACTIVITIES

- Conducted online webinars during Mental health awareness week organized by **Institute Wellness Group** in 2020
- Volunteered in **National Service Scheme** to distribute used clothes and books, and to teach unprivileged children