

Saurabh Kumar Singh

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B.Tech - Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. CSE Major	Indian Institute of Technology Indore	8.78 (Current)	2020-Present
Senior Secondary	Sunbeam Lahartara / CBSE Board	97.2%	2020
Secondary	Jawahar Navodaya Vidyalaya / CBSE Board	91%	2018

EXPERIENCE

- Google** May 2023 - Aug 2023
Software Engineering Intern
 - Worked in the Corporate Engineering team where my project was to create a highly optimized Search API with over 140 million records with type-ahead search functionality.
 - Exposure: Retrieval Engine, Data Pipeline, Spanner(database), Protocol Buffers, Generic Suggest, Stubby(RPC call), Guice(dependency injection), Boq(server development platform)
- Scaler by InterviewBit** Sept 2023 - current
Problem Setter and Technical Content Reviewer Intern
 - Created and tested coding problems for coding contests hosted on Scaler/Interviewbit of varied difficulties.
 - Performed quality checks on published articles on Scaler Topics.
- Coding Ninjas** June 2023 - current
Problem Setter Intern
 - Created 30+ original competitive programming problems of varied difficulties.
 - Assured problem quality through rigorous testing before their wider community release.

PROJECTS

- Hospital Management System**  Prof- Dr. Nagendra kumar
Sept. 2021 - Nov. 2021
Database Design, PHP, MySQL
 - A web application that a Hospital uses to manage records of its patients, doctors, staff, emergency cases, and inventory.
- Hostel Management Project**  Prof- Dr. Puneet Gupta
Feb 2022 - April. 2022
Database Design, Node.js, MongoDB, Express
 - Developed a web application used by the Hostel community with different privileges to manage hostel activity and record of students & staff.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python
- Tools/Frameworks:** MySQL, MongoDB, Express, ReactJS, NodeJS, Bootstrap, Git/GitHub, API, HTML, CSS
- Other Skills:** Competitive programming, Machine Learning, Leadership, Teamwork, Full Stack Development

KEY COURSES TAKEN

- Computer Science Course:** Database and Information Systems, Advance Data Structures, Design and Analysis of Algorithms, Software Engineering, Operating System, Computer Architecture, Parallel Computing, Optimization Techniques and Algorithms, Logic Design, Discrete Mathematics, Computer Graphics and Visualization, Computational Intelligence, Computer Networks, Compiler Techniques
- Mathematics:** Linear Algebra, Basic Calculus, Complex Analysis, Probability, Numerical Methods

POSITIONS OF RESPONSIBILITY

- Contest Organizer**, Surprise Language 6.0 (Hackerrank), Fool You (CodeChef) 2023
- Member**, The Programming Club, IIT Indore October-2021 - current
- Writer and Tester**, Divide By Zero (Rated contest on Codeforces) Dec 2022
- Mentor**, in IITISoc May 2022- June 2022
- Outreach Team Lead**, Euristica'23 (IIT INDORE Programming Fest) Oct-2022 - Apr-2023

ACHIEVEMENTS

- ICPC'21 Regionalist**, AIR-10 in Kanpur and AIR-26 in Amritapuri regional 2022
- ICPC'21 Prelims Contest**, AIR-8 in Kanpur and AIR-16 in Amritapuri 2022
- Job-a-Thon 10: Hiring Challenge**, Secured rank 1st rank among 5755 participants GeeksforGeeks
- Codeforces**, Handle: sksusha8853, Rating: **2079** (Rated Candidate Master) [Profile](#)
- CodeChef**, Handle: sksusha8853, Rating: **2230** (Rated 6 ★) [Profile](#)
- AIR 2 (World Rank 32)**, Codeforces Round #800(Div 2) among 24000+ Participants. [Leaderboard](#)
- Google Kickstart**, Secured Global rank **125** among 10322 participants in Round E'22 with **(100/100 points)** 2022
- 1st rank**, CodeDrift November 1.0, InterviewBit November 2022
- 1st rank**, CodeChef CODE O' GEEKS 2.0 November 2022
- Inter IIT individual CP Contest**, Secured the 8th rank in both 2021 & 2022 contest. 2021 & 2022
- Best Project Award**, For project "Psuedo Code in Latex" in Hackistica'23 2023
- 1st rank - 3 times**, PrepBytes Coding Marathon, [Nov'21](#), [June'22](#), & [July'22](#)
- Physics**, 100% in Jee main & 100/100 in 12th CBSE Board 2020
- Google Cloud**, Cloud Engineering and data science [Badge](#)