Gagan Sharma

UG (IV Year I Semester)
B.Tech. (Computer Science and Engineering)
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Indian Institute of
Technology
Roorkee

VERIFIED

Area of Interest

Software Development

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2022	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	9.325
2019	Intermediate (Class XII)	Modern Public School, New Delhi (CBSE)	92.00 %
2017	Matriculate (Class X)	Modern Public School	10.000

Internships

Systems Intern | Quadeye   May 16, 2022 - July 15, 2022
- Worked full-time in a professional environment.
- Developed in-house tools from scratch to improve trading speed.
- Delivered results and completed project on time.

Tech Intern | Newton School   June 09, 2021 - August 08, 2021
- Worked in a professional environment to develop and improve features of Newton's website and mobile app.
- Skills I acquired during the internship: React Native, Firestore
- Tech Stack I worked on : React JS, Redux, Redux-Saga, Bootstrap
- Projects I worked on :
- 1. Making the website more mobile responsive.
- 2. Webcam integration in test playgrounds.
- 3. Improving Newton Chat.
- 4. Verified 300 questions for Newton assignments and tests on topics of JS, React and HTML.
- 5. Improving UI of feedback forms.
- 6. Documenting feature additions in Notion docs.

Engineering Intern | Airblack   March 01, 2021 - May 31, 2021
- Worked in a professional environment to develop premium features of Airblack's website.
- Skills I acquired during the internship : NextJS, MongoDB, Express JS, AWS, Retool
- Tech Stack I worked on : Bit, ReactJS, Redux-Saga, Branch.io (deep links).
- Projects I worked on :
- 1. Whatsapp Notification
- 2. Events and Analytics
- 3. Rebuild Checkout and Payment Link Generation system
- 4. Intercom Integration
- 5. Enhancement and addition of Website features

Projects

Neural Style Transfer | Machine Learning, IIT Roorkee   January 2022 - April 2022
- ML project under supervision of Prof. Pravendra Singh.
- Solved the problem of style transfer as a optimization problem as per Gatys etal.
- Conducted ablation study on optimizers, feature Extractors, number of iterations and input initialization

SemEval-2022 | LBP, IIT Roorkee   January 2022 - April 2022
- Participated in a NLP competition organized as an event of The 16th International Workshop on Semantic Evaluation on the topic of Multimedia Automatic Misogyny Identification.
- Secured 5th and 20th rank in Subtask A and B respectively.
- System Description Paper published in the proceedings of NAACL conference.
- Link to Paper - https://aclanthology.org/2022.semeval-1.100/

People Search | Information Management Group, IIT Roorkee   June 2021 - July 2021
- An app to search people at IITR based on their details and interests.
- Tech Stack - ReactJS, Semantic UI, Django
- Github - https://github.com/IMGIITRoorkee/omniport-frontend-people_search

Omniport Setup CLI | Information Management Group, IIT Roorkee   October 2020 - December 2020
- A CLI to setup Omniport and its components on your local system. Installing Dockerized setup of Omniport needs referrig to the docs a lot many times and contacting the developers for unresolved issues. But the cli does all the job for you. Currently published as an npm package.
- Tech - Node JS
- NPM - https://www.npmjs.com/package/@imgiitr/omniport-setup-cli
- Github - https://github.com/IMGIITRoorkee/omniport-setup-cli

RISC-Processor-Simulator | IIT Roorkee   November 2020 - December 2020
- Developed this project under the guidance of Prof Peddoju Sateesh Kumar
- Worked in a team of 6 developers for the project.
- We have designed a 32-Bit RISC inspired Processor with Von Neumann Architecture using Logisim. We have also developed an assembler in python which converts the assembly code into machine language.
- My roles included cross-checking, documentation and implementation of assembler and main cpu circuit
- Github - https://github.com/gagansh7171/RISC-Processor-Simulator

BruteForce | IIT Roorkee   September 2020 - November 2020
- Made this project under guidance of Prof. Sandeep Kumar
- Worked in a team of 5 developers.
- Hands on implementation of various UML diagrams for the purpose of the project
- The project involved developing a platform for competitive programmers' discussions, blogs and Q&A.
- My responsibilities included developing the frontend of the project using NEXT-JS framework.
- Tech Stack - Next JS, Express JS, MongoDB
- Github - https://github.com/BruteForce-CP/BruteForce

Awards / Scholarships / Academic Achievements

- Global Rank 469, 752 at Atcoder ABC. Global Rank 998, 976 at Atcoder ARC
- Global Rank 10, 64 in Codechef 3 hour contests
- Global Rank 471, 556 in Codeforces Div2 contests
- Global Rank 30 at Codechef Div2 KETEKI contest
- JEE Advanced 2019, All India Rank - 303
- JEE MAINS 2019, All India Rank - 206
- KVPY SA 2017, All India Rank - 198
- NTSE 2017 Scholar
- SOMT 2017, Delhi State Rank 1 out of 15000 students all over Delhi
- JSTSE 2016 Delhi State Rank 24
- FTRE 2016, National Rank 125, conducted over 60 cities across India

Skills

Computer languages	C++, Python, JavaScript, Java, Dart
Software Packages	ReactJS, Django, SQL, HTML-CSS, MongoDB, Flutter, React Native, Material-UI, PHP
Languages Known	Hindi, English (LSRW)

Positions of Responsibility & Extra Curriculars

Project Leader | IMG IIT Roorkee   January 2020 - July 2021
- Information Management Group develops and maintains the IIT Roorkee Internet & Intranet systems and portals including the Institute website, Content Management System, Placement and Academic Portal.
- Responsible for identifying problems, that can be solved using tech, and suggesting innovative products around them.

Member | Programming and Algorithm Group (SDS PAG), IIT Roorkee   January 2020 - July 2020
- The group aims to help an environment of mutual growth and an active coding culture on the campus.
- My responsibilities included assissting in organizing and conducting lectures on data structures and algorithms.

Volunteer | NSS IIT Roorkee   July 2019 - June 2020
- Served as Volunteer of Awareness Cell (NSS). Enacted in skits to raise awareness regarding Road Safety.
- Offered service in various events like Blood Donation Camp and National Social Summit.
- Received a certificate of Excellent Performance.

Competitive Programming | Online Judges   June 2019 - July 2021
- Codechef online judge.
- Highest Rating - 2081 (5 star)
- Handle - https://www.codechef.com/users/gagan_sharma
- Codeforces online judge
- Highest Rating - 1630 (Expert)
- Handle - https://codeforces.com/profile/gagan_sharma
- Atcoder online judge
- Highest Rating - 1224 (4 Kyu)
- Handle - https://atcoder.jp/users/gagan_sharma

Research Publications

- Gagan Sharma, Gajanan Sunil Gitte, Shlok Goyal, Raksha Sharma, "IITR CodeBusters at SemEval-2022 Task 5: Misogyny Identification using Transformers", in Proceedings of the 16th International Workshop on Semantic Evaluation (SemEval-2022), Association for Computational Linguistics, 2022

References

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