




Sarthak Rout

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Second Year Undergraduate
Department of CSE, IITK

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EDUCATION

| Year | Degree/Exam | Institute | CPI/% |
|----------------|---|---|----------|
| 2019 - Present | B.Tech (Computer Science and Engineering) | Indian Institute of Technology, Kanpur | 9.49/10 |
| 2019 | CBSE(Class XII) | Sir Padampat Singhanian Public School, Kota | 95.2/100 |
| 2017 | CBSE(Class X) | DAV Public School, Chandrasekharapur, BBSR | 10/10 |

SCHOLASTIC ACHIEVEMENTS

- Recipient of **Academic Excellence Award** from IIT Kanpur 2019
- Secured **All India Rank 202** in JEE (Advanced) among over 0.2 million students 2019
- Secured **All India Rank 207** in JEE (Main) among over 1.3 million students 2019
- Qualified for **OCSC of IJSO and IAO 2016, IOAA 2017, IOAA 2018, IChO and IOAA 2019** organised by HBCSE.
- Recipient of **Kishore Vaigyanik Proasthan Yojana (SA)** fellowship award with AIR **42**, IISc Bengaluru 2018
- Recipient of **National Talent Search** Scholarship, NCERT 2017

PROJECTS

- Private Computation using Cryptographic Primitives** (May '20 - Jul '20)
By SrT Club | Mentor: Aditya Gulati | IITK
 - Learnt about **Private Computation, FSS, FHE, Yao's Garbled Circuits** etc.
 - Learnt about **GRPC, Compiler Theory and Rust**.
- InfoSec IITK** (Feb '20 - Apr '20)
By ACA | Mentors: Priyadarshi Singh, Varun Goyal | IITK
 - Found critical vulnerabilities in OARS, IITK
 - Learnt about **SQL Injection, XXS and XXE injection** along with how to prevent them.
- gradeLess - Course Project ESC101** (Aug '19 - Nov '19)
Under Dr. Piyush Rai, CSE
 - Developed a **webapp** to check marks of answer sheets having True/False and MCQ questions.
 - We used **Angular 8** as Frontend and **Express** as Backend with **Python** as scripting language for the Image Processing and Machine Learning part.

TECHNICAL SKILLS

- Programming Language:** C, C++, Python, TypeScript
- Libraries :** Pandas, SciKit-Learn, OpenCV, Selenium
- Tools :** GitHub, VS Code , \LaTeX

RELEVANT COURSES

| | | |
|--------------------------------|---|------------------------|
| Fundamentals of Computing | Real Analysis and Calculus | Linear Algebra and ODE |
| Data Structures and Algorithms | Computational Methods in Engi- neering | Number Theory |
| Introduction to Electronics | | |
| *: Ongoing course | | |

POSITION OF RESPONSIBILITY AND EXTRACURRICULARS

- Secretary, Programming Club
- Secretary (Startup Internship Program), Entrepreneurship Cell
- Interned at Edvizo as Mentor in Maths teaching JEE Aspirants.
- Secured 16th position of Merit in HCL HackIITK Hackathon for detection of malware using Machine Learning
- Competitive Programming: **Codechef**

Hyperlinks are present at appropriate places.
Last Updated: January 9, 2021