Sarthak Rout

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ACADEMIC ACHIEVEMENTS

Year	Degree	Institute	CPI/%
2019-Present	B.Tech Computer Science and Engineering	Indian Institute of Technology, Kanpur	9.04/10
2019	CBSE(Class XII)	Sir Padampat Singhania Public School, Kota	95.2/100
2017	CBSE(Class X)	DAV Public School, Chandrasekharpur, 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 Prostahan Yojana (SA)** fellowship award with AIR 42, IISc Bengaluru *2018*
- Recipient of **National Talent Search** Scholarship , NCERT *2017*

PROJECTS

- **Gradeless - Course Project ESC101** *(Aug '19 - Nov '19)*
  Under Dr. Piyush Rai | CSE | IIT Kanpur

  - Developed a **Web-App** to check marks of answer sheets having T/F and MCQ questions.
  - We used **Angular 8** as Frontend and **Express** as Backend with **Python | OpenCV** as scripting language for the Image Processing and Machine Learning part.

- **InfoSec IITK** *(Feb '20 - Apr '20)*
  By Association of Computing Activities | IITK

  - Found critical vulnerabilities in OARS, IITK
  - Learnt about **SQL Injection, XXS and XXE injection** along with how to prevent them.

- **Private Computation using Cryptographic Primitives** *(May '20 - Jul '20)*
  By SnT Club | Mentor: Aditya Gulati | IITK

  - Learnt about **Private Computation, FSS, FHE, Yao's Garbled Circuits** etc.
  - Learnt a bit of **Rust, GRPC, and Compiler Theory**.

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(o)	Number Theory(o)	Modern Cryptology (a)

o : Ongoing course ; a : Audited Course

POSITION OF RESPONSIBILITY AND EXTRACURRICULARS

- Secretary, Programming Club
  - Secured 16th position of Merit in HCL HackIITK Hackathon for detection of malware using Machine Learning
  - Wrote blogs on Medium and managed Sport Programmer of the Month Contest for the month of October
- Secretary (Startup Internship Program), Entrepreneurship Cell
  - In E-Summit 2019, I worked in Hospitality Team, sold T-Shirts and helped in crowd control.
  - Contacted founders and CEOs of startups to participate in SIP Program
- Interned at Edvizo as Mentor in Maths teaching JEE Asiprants.

Hyperlinks are present at appropriate places.
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