Guntas **Singh Brar**

Contact

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Coursework

* :in progress
- Fundamentals of Computing
- Data Structures and Algorithms
- Discrete Mathematics
- Introduction to Economics
- Linear Algebra and ODE
- Computer Organisation*
- Abstract Algebra*
- Introduction to Mathematical Logic*
- Software Development and Operations*
- Modern Cryptology*

Responsibilities

- Secretary, DJ War, Antargni IIT Kanpur (2019)

Education

2018-Present	**Indian Institute of Technology Kanpur** Bachelor of Technology in Computer Science and Engineering	CPI–7.8/10
April 2018	**Guru Nanak Public School, Kota** AISSCE, CBSE Class XII	Percentage–94.7%
March 2016	**Central Academy Senior Secondary School, Bhilwara** AISSE, CBSE Class X	CGPA–10.0/10.0

Achievements

2019	**Third Position,** IIT Kanpur Summer of Code 2019 among 23 participating teams
2018	**All India Rank 1032,** Joint Entrance Examination Advanced, 2018, 2.3 lakh candidates
2018	**All India Rank 2564,** Joint Entrance Examination Mains, 2018, 11.5 lakh candidates

Experience

2019 — Summer of Code, IIT Kanpur
Full Stack Developer Intern
- Developed a web based platform which was designed to make the entire process of the IITK health centre paperless. Interconnected various departments such as the pharmacy, doctor's end, etc.
- Built a fully functional website using Django and Bootstrap for frameworks and postgeSQL database management.

2018 — Electronics Club Winter Workshop, IIT Kanpur
- Gained theoretical and practical knowledge widely spread over various fields of electronics like ArduinoIDE, FPGAs, etc.
- Learnt about data input and processing methods in Computer Vision and Image Processing and basics of Machine Learning.

Projects

April 2019 — Ethical Hacking — Association of Computing Activities, IIT Kanpur
- Learned github, setting up ssh connections and file sharing
- Studied Assembly Language, Source Codes, Exploitation of vulnerabilities.
- Learned about the basics of cryptology and elementary ciphers.
- Practiced through online CTFs such as OverTheWire.

June 2019 — Haskell Scrabble Solver — Programming Club, IIT Kanpur
- A implementation project where we learned about functional programming, particularly Haskell
- Studied Haskell and practiced with small implementations.
- Built a program in Haskell that could solve Scrabble.

Skills

- **Programming Languages:** C,C++,Python,Haskell
- **Frameworks:** Django, PostgreSQL
- **Others:** HTML, CSS, BootStrap, Git, Linux Shell Utilities, AutoDesk