

Anuj Nagpal

2nd Year Undergraduate

Department of Computer Science and Engineering

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Educational Qualifications:

Year	Degree	Institute	CPI/%
2018(expected)	Bachelor of Technology, Computer Science and Engineering	Indian Institute of Technology Kanpur	9.5/10.0
2014	All India Senior School Certificate Examination (Class XII - CBSE)	Bal Mandir Model Sen. Sec. School, Mandi Killianwali	96.2%
2012	All India Secondary School Examination (Class X - CBSE)	Bal Mandir Model Sen. Sec. School Mandi Killianwali	10/10

Academic Achievements

- Secured an All India Rank of 190 in JEE Advanced 2014 given by about 150,000 students.
- Secured an All India Rank of 220 and State Rank of 4 in Punjab in JEE Main 2014 given by about 1,500,000 students.
- Qualified National Standard Examination in Chemistry (NSEC) and National Standard Examination in Astronomy (NSEA) in 2013.
- Conferred with Kishore Vaigyanik Protsahan Yojana (KVPY) Scholarship in 2012 conducted by IISc Bangalore.

Projects

Joint Seat Allocation for IITs, NITs, IIITs and GFTIs 2016 Dec '15 - Current

(under Dr. Surendra Baswana)

- Designing a DA algorithm as per the business rules of JoSAA 2016 for the Joint Seat Allocation 2016.
- Coding an implementation of the algorithm and testing it on synthetic data as test cases.
- Designed the validation modules that were used to confirm that all the business rules were being followed correctly.

Combinatorial Game Theory

Jul '15 Nov 15

(course project under Dr. Rajat Mittal)

- Studied game trees, impartial games, sums, comparisons, outcome classes in combinatorial games.
- Analysis and study of proofs of results related to some combinatorial games like Nim, Hex, Domineering and Tic Tac Toe.
- Studied Minimax and Monte Carlo Algorithm for Tic Tac Toe.

Learn With Fun App

Sep '15

- Built an App in Microsoft.Code.Fun.Do Hackathon to help school students to gain basic programming knowledge as if they are reading a story book.
- Coded it in C# using Visual Studio 2015 and used Adobe Photoshop to design the pages.

Vegetable Shredder and Chopper

Jul '15 - Nov '15

(under Dr. Anish Upadhyaya)

- Ranked 2 in day-wise section teams for designing and creating a mechanical vegetable shredder and chopper under the Manufacturing Processes course.
- Worked on it along with 4 other students using the processes taught in the course.

Positions of Responsibility:

- Secretary, Programming Club

Apr '15 - Current

- Secretary, Animation Club

Apr '15 - Current

- UG Secretary, Association of Computing Activities, Student Body of CSE Department, IIT Kanpur

Apr '15 - Current

- Senior Web Executive, Techkriti 2016

Relevant Courses

- ESC101 - Fundamentals of Computing
- CS210 - Data Structures and Algorithms*
- CS251 - Computing Laboratory*
- CS201 - Discrete Mathematics
- CS202 - Introduction to Logic
- CS203 - Abstract Algebra
- CS220 - Computer Organization*
- MSO201 - Probability and Statistics*
- MTH102 - Linear Algebra and ODE
- MTH101 - Analytical Calculus
- ESC201 Introduction to Electronics

* - Ongoing

Technical Skills

• Programming Languages:

C, C++, Python, Java, C#, Bash, Perl, HTML5, CSS , JavaScript, PHP, MySQL, Verilog, Assembly

• Softwares & Utilities:

MATLAB, GNU Octave, Git, Latex, Adobe Photoshop, Autodesk 3ds Max