

Education

- **Indian Institute of Technology, Kanpur** 2014 - 2018 (*Expected*)
Cumulative Grade Point Average 9.2/10 Department rank 2 (*Among 51 students*)
- **All India Senior School Certificate Examination (AISSCE)**
Central Board of Secondary Education (CBSE), Govt. of India; Delhi Public School, R. K. Puram
 - 98.2%; School Topper; National top 1% in Physics, Chemistry and Computer Science 2014
 - Cumulative Grade Point Average (CGPA) 10/10 2012

Academic and Co-Curricular Achievements

- AIR 116 in **JEE Mains** 2014; AIR 1306 in **JEE Advanced** 2014 among 1.5 million candidates
- **Kishore Vaigyanik Protsahan Yojna** Fellow 2013, Dept. of Science & Technology, Govt. of India
- **Junior Science Talent Search Examination** Scholar 2012, Govt. of Delhi (Rank 16 out of 20000)
- **National Talent Search Examination** Scholar 2010, conducted by NCERT, Govt. of India
- Rank 29 & 54 in **ACM-ICPC Amritapuri** Onsite & Online Round 2015 respectively among 1500 teams
- **Microsoft Code.Fun.Do**
 - **Winner 2014-15:** Graphing app to plot implicit 2D Mathematical Functions for Windows Phone
 - **National 5th, Coding Milestone, Finalist Forum 2014-15:** Educational app for Windows Phone
 - **Winner 2015-16:** Front-end for open source program simulation code for Microsoft Windows
- Represented India at **Asia Pacific Informatics Olympiad (APIO)** 2014
- Qualified for & attended **International Olympiad of Informatics Training Camp** 2014

Technical Skills

- **Languages:** C (*Proficient*), C++ (*Expert*), Python (*Expert*)
- **Web Development:** HTML, CSS, Javascript, PHP, NodeJS (Express, Restify), AngularJS, BackboneJS
- **Tools:** L^AT_EX, Git, Vim, OpenGL, SDL, GDB, MATLAB, Visual Studio

Work Experience and Projects

- **A Succinct Data Structure for Dynamic Queries** JAN 2015
Paper currently under revision. Click here for the overview
 - Proposed a new data structure “SegBit” to process queries like RMQ, RSQ and Stabbing Query
 - Based on the principle that any range can be decomposed into powers of 2
 - Iterative; Lower constant of complexity; Performs better than Segment Trees
- **Cimulator:** a Visual & Interactive Tutoring system MAY-JUL 2015
Supervisor: Prof. Amey Karkare, Dept. of CSE, IIT Kanpur
 - Interpreter for C language in python, modelled memory artificially, handled external header files
 - Prompts user with corrections for runtime errors instead of crashing abruptly (unlike gcc)
 - Web interface to **simulate C codes** interpreted by Cimulador to provide visual cues to the user
 - Tested by 400 **students** taking the Introduction to Computing course in Fall 2015
- Web Developer (Intern), **Elanic**, Bangalore DEC 2015
 - Full stack developer: MongoDB, AngularJS and NodeJS with Restify framework
 - Built REST APIs for notification, engagement and search (using Elastic Search) modules

Positions of Responsibility

- **Student Member, Senate Undergraduate Committee**, IIT Kanpur (2014-15) & (2015-16)
 - Among **4** students who represent the opinions of all UG students (about 3500) on academic matters
 - Worked on proposals like remedial programme for academically deficient students, exit option for students from Bachelor’s degree and semester drop be allowed for any valid reason
- **Senator, Students’ Gymkhana**, IIT Kanpur (2015-16)
 - Among **6 elected** representatives of UG Y14 batch (800 students) to the Students’ Senate
 - Responsible for attending the meeting of the Students’ Senate, IIT Kanpur, the highest policy-making and legislative body of the Students’ Gymkhana, IIT Kanpur