

# Saksham Sharma

Sophomore Undergraduate  
Computer Science and Engineering  
Indian Institute of Technology Kanpur

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## Educational Qualifications

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### Bachelor of Technology, Computer Science and Engineering

July'14-Present

Indian Institute of Technology, Kanpur

Cumulative Performance Index: 10.0

### All India Senior School Certificate Examination(AISSCE) - CBSE

2014

Overall percentage: 97.6%

D.A.V. Public School, Amritsar

### All India Secondary School Examination (AISSE) - CBSE

2012

Cumulative Grade Point Average(CGPA): 10

D.A.V. Public School, Amritsar

## Academic Achievements and Scholarships

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- Cumulative Point Index of 10.0 after Semester I and II 2014-15
- All India Rank 138 in Joint Entrance Exam Advanced 2014 among 150,000 candidates 2014
- All India Rank 10 in Joint Entrance Exam Mains 2014 among 1.5 million candidates 2014
- Received the Aditya Birla Group Scholarship along with 15 other IITans 2014
- Received the Kishore Vigyanik Protsahn Yogna (KVPY) Scholarship with an AIR of 109 2013
- Received the National Talent Search Examination (NTSE) Scholarship 2010
- Qualified National Standard Examination in Physics (NSEP) twice 2012-13

## Projects

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- **Microsoft code.fun.do Finalists Forum 2015** May'2015-Jul'2015  
*5th National in Coding Milestone*
  - Developed an app to help users learn programming in their spare time.
  - Made an extensive app with multiple features like lessons, scratchpad.
  - Wrote a backend web service in Node.js to compile, run and verify user's input codes.
- **Microsoft code.fun.do 2015** Jan'2015  
*Winning team member*
  - Designed a graphing app to plot implicit 2D mathematical functions for Windows Phone
- **ABU Robocon 2015** Oct'2014-Mar'2015  
*Supervisor: Prof. Bhasker Dasgupta (IIT Kanpur)*
  - Worked on making 2 semi-autonomous robots capable of playing badminton on a full court.
  - Used image-processing to track the shuttle, predicted its trajectory and moved the robot.
  - Used Microsoft Kinect to get depth data. Also worked with stereo-vision.
- **NASA AMES Space Settlement Design Contest** Dec'2011-Mar'2012  
*Team Leader, Winning Team*
  - Designed in detail a Space Settlement capable of settling 14000 permanent residents in orbit around the earth
  - International 1st prize among the Grade 10 category.

## Work and Volunteer Experience

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SUMMER 2015	Web Dev Intern at IIT KANPUR, under Prof. Manindra Agarwal Worked on developing a scaleable web-app. Used Scala with Akka, ElasticSearch, Node.js and Dart. Worked on the backend and frontend team, and handled an independent division of the app.
APR'15-PRESENT	Secretary at PROGRAMMING CLUB, <i>IIT Kanpur</i> Helped organize workshops related to programming. Promoted programming culture among the fresher batch of 2015.
AUG'15-PRESENT	Technical Secretary at ASSOCIATION FOR COMPUTING ACTIVITIES, <i>IIT Kanpur</i> Member of the student body of CSE department, IIT Kanpur.
APR'15-PRESENT	Student Guide at COUNSELLING SERVICE, <i>IIT Kanpur</i> Helped the fresher batch of 2015 settle in to college life. Helped organize the Orientation of the fresher batch, 2015.

## Technical Skills

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Web Development	HTML/CSS, Node.js, Javascript, Dart, PHP
Programming Languages	C/C++, Python, Java, C#, Scala
Operating Systems	Arch Linux, Ubuntu, Microsoft Windows
App Development	Windows Phone
Utilities	Vim, Git, Shell Scripting, Microsoft Visual Studio, GNU Octave
Web Frameworks	Node.js with Express.js and Jade, Scala with Akka, LAMP stack
CAD	Autodesk Inventor, Autodesk 3dsMax
Hardware	Microsoft Kinect, Arduino

## Relevant Courses

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Introduction to Programming(A*)	Introduction to Calculus
Linear Algebra	Ordinary Differential Equations
Discrete Mathematics(*)	Abstract Algebra(*)
Data Structures and Algorithms(**)	Tools for Computing I(**)

Received A\* grade for exceptional performance: A\*

Course in progress: \*

Course to be completed by April '16: \*\*