

# Saksham Sharma

Computer Science and Engineering – IIT Kanpur

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## Educational Qualifications

<b>Bachelor of Technology</b> : Indian Institute of Technology Kanpur - <i>CPI: 10.0/10.0</i>	<i>July'14-Present</i>
<b>Senior Secondary - CBSE</b> : D.A.V. Public School, Amritsar - <i>Overall percentage: 97.6%</i>	<i>2014</i>
<b>Secondary - CBSE</b> : D.A.V. Public School, Amritsar - <i>Overall grade: 10.0/10.0</i>	<i>2014</i>

## Academic Achievements and Scholarships

○ All India Rank <b>10</b> in Joint Entrance Exam Mains 2014 among 1.5 million candidates	<i>2014</i>
○ All India Rank <b>138</b> in Joint Entrance Exam Advanced 2014 among 150,000 candidates	<i>2014</i>
○ Aditya Birla Group Scholarship recipient, awarded to 15 IIT freshmen.	<i>2014</i>
○ Kishore Vigyanik Protsahn Yojna (KVPY) Scholar, Dept of Science and Technology, Govt of India	<i>2013</i>
○ National Talent Search (NTSE) Scholar, organized by NCERT, Govt of India	<i>2010</i>
○ Qualified National Standard Examination in Physics (NSEP for Class 12) in grade 11 and 12	<i>2012-13</i>
○ Selected for INSPIRE Scholarship Scheme (Dept of Science and Technology, Govt of India).	<i>2014</i>

## Projects

○ <b>Web Developer</b> <i>IIT Kanpur</i>	<i>May'2015-Present</i>
<ul style="list-style-type: none"><li>- Working on a scaleable web-app using Haskell, Scala with Akka, Elasticsearch, Node.js, Dart, Angular.</li><li>- Worked on the backend and the frontend team, and handled an independent division of the app as a full-stack Web Developer.</li></ul>	
○ <b>Microsoft code.fun.do 2014 and 2015</b> <i>Winning team member twice</i>	<i>Jan'2015 and Sep'2016</i>
<ul style="list-style-type: none"><li>- <i>Fresher</i> Designed a graphing app to plot implicit 2D mathematical functions for Windows Phone.</li><li>- <i>Sophomore</i> Made a frontend to an open source program simulation code for Microsoft Windows.</li></ul>	
○ <b>ABU Robocon 2015</b> <i>Supervisor: Prof. Bhaskar Dasgupta</i>	<i>Oct'2014-Mar'2015</i>
<ul style="list-style-type: none"><li>- Worked on making 2 semi-autonomous robots capable of playing badminton on a full court.</li><li>- Image-processing to track the shuttle, predict trajectory. Used Arduino and Odroid for robot control.</li><li>- Used stereo-vision, and later Microsoft Kinect to source depth data.</li></ul>	
○ <b>Microsoft code.fun.do Finalists Forum 2015</b> <i>National 5th in Coding Milestone</i>	<i>May'2015-Jul'2015</i>
<ul style="list-style-type: none"><li>- Developed an app to help users learn programming in their spare time.</li><li>- An extensive app in C# and backend Online Judge in Node.js to run and verify user submitted programs.</li></ul>	

## Work and Volunteer Experience

○ <b>Development Intern</b> <i>under DoFA IIT Kanpur, Prof. Manindra Agarwal</i>	<i>May'15-July'15</i>
<ul style="list-style-type: none"><li>- Was adjudged as one of the best interns as a freshman.</li><li>- Worked on a scaleable web application with a large technology stack.</li></ul>	
○ <b>Secretary</b> <i>Programming Club, IIT Kanpur</i>	<i>Apr'15-Present</i>
<ul style="list-style-type: none"><li>- Organized Freshers' Programming Contest, setting and testing algorithmic questions.</li><li>- Organized beginner programming workshops for students.</li></ul>	
○ <b>Technical Secretary</b> <i>Association for Computing Activities, IIT Kanpur</i>	<i>Aug'15-Present</i>
<ul style="list-style-type: none"><li>- Member of student body of CSE department, IIT Kanpur</li></ul>	
○ <b>Student Guide</b> <i>Counselling Service, IIT Kanpur</i>	<i>July'15-Present</i>
<ul style="list-style-type: none"><li>- Helped 9 students adjust to the rigours of college life, by providing emotional support along with counselling.</li><li>- Assisted in the Orientation Programme '15 for the fresher batch.</li></ul>	

## Technical Skills

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Web Development	Node.js (with Express), Scala (with Akka), Javascript, Dart, PHP, Angular
Programming Languages	C/C++, Python, Haskell, Java, C#, Scala
Operating Systems	Gentoo Linux, Arch Linux, Microsoft Windows, Ubuntu
Utilities	Vim, Git, GDB, Shell Scripting, Visual Studio, GNU Octave, OpenCV, L <sup>A</sup> T <sub>E</sub> X
Platforms	Windows Phone, Microsoft Kinect, Arduino

## Relevant Courses

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Introduction to Programming(A*)	Logic in Computer Science	Abstract Algebra
Discrete Mathematics	Data Structures and Algorithms(**)	Computer Organization(**)
Probability and Statistics (**)	Computer Systems Security(**)	Linear Algebra, O.D.Es, Calculus
A* grade for exceptional performance	*: Course in progress	**:: To be completed by April '16

## Interests

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Cyber Security	Web Development	Programming Languages
Functional Programming	Software Verification	Machine Learning

## Miscellaneous

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Sporadic blogger at my blog <http://acehack.org>

Occasional contributor to public Open Source projects on Github <https://github.com/sakshamsharma>