

# Saksham Sharma

Computer Science and Engineering – IIT Kanpur

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## Educational Qualifications

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

## Academic Achievements and Scholarships

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

## Projects

- **Web Developer** IIT Kanpur May'2015-Present
  - Working on a scaleable web-app using Haskell, Scala with Akka, ElasticSearch, Node.js, Dart, Angular.
  - Worked on the backend and the frontend team, and handled an independent division of the app as a full-stack Web Developer.
- **Microsoft code.fun.do 2014 and 2015** Winning team member twice Jan'2015 and Sep'2016
  - *Fresher* Designed a graphing app to plot implicit 2D mathematical functions for Windows Phone.
  - *Sophomore* Made a frontend to an open source program simulation code for Microsoft Windows.
- **ABU Robocon 2015** Supervisor: Prof. Bhaskar Dasgupta Oct'2014-Mar'2015
  - Worked on making 2 semi-autonomous robots capable of playing badminton on a full court.
  - Image-processing to track the shuttle, predict trajectory. Used Arduino and Odroid for robot control.
  - Used stereo-vision, and later Microsoft Kinect to source depth data.
- **Microsoft code.fun.do Finalists Forum 2015** National 5th in Coding Milestone May'2015-Jul'2015
  - Developed an app to help users learn programming in their spare time.
  - An extensive app in C#. Wrote backend web service (Online Judge) in Node.js to compile, run and verify user submitted programs.

## Work and Volunteer Experience

- **Development Intern** under DoFA IIT Kanpur, Prof. Manindra Agarwal May'15-July'15
  - Was adjudged as one of the best interns as a freshman.
  - Worked on a scaleable web application with a large technology stack.
- **Secretary** Programming Club, IIT Kanpur Apr'15-Present
  - Organized Freshers' Programming Contest, setting and testing algorithmic questions.
  - Organized beginner programming workshops for students.
- **Technical Secretary** Association for Computing Activities, IIT Kanpur Aug'15-Present
  - Member of student body of CSE department, IIT Kanpur
- **Student Guide** Counselling Service, IIT Kanpur July'15-Present
  - Helped 9 students adjust to the rigours of college life, by providing emotional support along with counselling.
  - Organized the Orientation Programme '15 for the fresher batch.

## 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>