

# Saksham Sharma

Sophomore Undergraduate  
Computer Science and Engineering  
Indian Institute of Technology Kanpur

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## Educational Qualifications

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

## Academic Achievements and Scholarships

- 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*
- Kishore Vigyanik Protsahn Yojna (KVPY), National Talent Search Scholarship (NTSE) awardee *2013,10*

## Projects

- **Web Developer at IIT Kanpur** *May'2015-Present*
  - Working on developing a scaleable web-app using Scala with Akka, ElasticSearch, Node.js, Dart, Angular.
  - Worked on the backend and the frontend team, and handled an independent division of the app.
- **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

MAY'15-JULY'15	Web Intern at IIT KANPUR, under Prof. Manindra Agarwal, DoFA Was adjudged as one of the best interns.
APR'15-PRESENT	Secretary at PROGRAMMING CLUB, <i>IIT Kanpur</i> Organized Freshers' Programming Contest and programming workshops.
AUG'15-PRESENT	Technical Secretary at ASSOCIATION FOR COMPUTING ACTIVITIES, <i>IIT Kanpur</i> Member of the student body of CSE department, IIT Kanpur.

## Technical Skills

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

## Relevant Courses

Introduction to Programming(A*)	Abstract Algebra	Introduction to Logic(*)
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

Cyber Security	Web Development	Operating Systems
Functional Programming	Compilers	

## Miscellaneous

Sporadic blogger at my blog <http://acehack.org>  
Occasional contributor on Github <https://github.com/saksham0808>