

Saksham Sharma

Sophomore Undergraduate
Computer Science and Engineering
Indian Institute of Technology Kanpur

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Educational Qualifications

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

- 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 Yagna (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

- **Web Developer at IIT Kanpur** May'2015-Present
Supervisor: Prof. Manindra Agarwal (IIT Kanpur)
 - 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 in fresher and sophomore year** Jan'2015 and Sep'2016
Winning team member twice
 - *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** 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. Used Arduino and Ordoroid for robot control.
 - Used Microsoft Kinect to get depth data. Also worked with stereo-vision.
- **Microsoft code.fun.do Finalists Forum 2015** May'2015-Jul'2015
National 5th 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.

Work and Volunteer Experience

MAY'15-JULY'15	Web Intern at IIT KANPUR, under Prof. Manindra Agarwal Worked on the backend and frontend team (mentioned in projects). 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. 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

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

Relevant Courses

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

Received A* grade for exceptional performance: A*

Course in progress: *

Course to be completed by April '16: **

Interests

Cyber Security	Web Development
Operating Systems	Functional Programming
Algorithms	Computer Vision

Miscellaneous

NASA AMES Space Settlement Design Contest	International Winning Team Leader
Web Development, Takneek, Winner	Developed a scholar.google.com scraper
Black Box, Takneek, Winner	Esoteric Language programming contest