

Saksham Sharma

Computer Science and Engineering – IIT Kanpur

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Educational Qualifications

Bachelor of Technology : Indian Institute of Technology Kanpur - CPI: 10.0/10.0	July'14-Present
Senior Secondary - CBSE : D.A.V. Public School, Amritsar - Overall percentage: 97.6%	2014
Secondary - CBSE : D.A.V. Public School, Amritsar - Overall grade: 10.0/10.0	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 and '13
○ Selected for INSPIRE Scholarship Scheme (Dept of Science and Technology, Govt of India).	2014

Projects

○ Research Internship Max Plank Institute for Software Systems, Saarbrücken, Germany - Supervisor: Prof. Eva Darulová. - Project topic to be decided.	May'16-July'16
○ Web Developer IIT Kanpur - 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 the search division of the app as a full-stack Web Developer, implementing robust and versatile searching.	May'2015-Present
○ Microsoft code.fun.do 2014 and 2015 Winning team member twice - <i>Fresher</i> Designed a graphing app to plot implicit 2D mathematical functions for Windows Phone. - <i>Sophomore</i> Made a frontend to an open source program simulation code for Microsoft Windows.	Jan'2015 and Sep'2016
○ ABU Robocon 2015 Supervisor: Prof. Bhaskar Dasgupta - 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.	Oct'2014-Mar'2015
○ Microsoft code.fun.do Finalists Forum 2015 National 5th in Coding Milestone - Developed an app to help users learn programming in their spare time. - An extensive app in C# and backend Online Judge in Node.js to run and verify user submitted programs.	May'2015-Jul'2015

Technical Skills

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

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.
 - Organized Freshers' Programming Contest and beginner programming workshops.
- **Software Corner Manager** *Techkriti 2016, IIT Kanpur* Dec'15-Present
 - Organized programming and software events, along with managing logistics.
 - Worked on preparing the competition environment and questions.
- **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 counseling.
 - Assisted in the Orientation Programme '15 for the fresher batch.

Relevant Courses

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
Database Management Systems(**)		
A* grade for exceptional performance	*: Course in progress	**: Auditing

Interests

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

Miscellaneous

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

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

Won First Prize as Team Leader in NASA AMES International Space Settlement Design Contest 2012.