

Saksham Sharma

Sophomore Undergraduate
Computer Science and Engineering
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Blog: <http://acehack.org>

Github: [sakshamsharma](https://github.com/sakshamsharma)

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*

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 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

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, Haskell, Java, C#, Scala
Operating Systems	Gentoo Linux, Arch Linux, Microsoft Windows, Ubuntu
Utilities	Vim, Git, GDB, Shell Scripting, Visual Studio, GNU Octave, OpenCV
Platforms	Windows Phone, Microsoft Kinect, Arduino

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
A* grade for exceptional performance	*: Course in progress	***: To be completed by April '16

Interests

Cyber Security	Web Development	Operating Systems
Functional Programming	Software Verification	Compilers

Miscellaneous

Sporadic blogger at my blog <http://acehack.org>
Occasional contributor to public Open Source projects on Github <https://github.com/sakshamsharma>