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

○ Institute Rank 1 and Department Rank 1 in all 3 semesters at IIT Kanpur.	*2014-15*
○ 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 Vaigyanik Protsahan Yojana (KVPY), National Talent Search awardee (Govt. of India).	*2013,10*

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, frontend team, handled search division 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# and backend Online Judge in Node.js to 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 and beginner programming workshops.

○ **Technical Secretary** *Association for Computing Activities, IIT Kanpur* — *Aug'15-Present*
- Member of 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, LaTeX
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	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`