Saksham Sharma

Sophomore Undergraduate
Computer Science and Engineering
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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 Yogna (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 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, DoFA Was adjudged as one of the best interns.
Apr'15-Present	Secretary at Programming Club, *IIT Kanpur* Organized Freshers' Programming Contest and programming workshops.
Aug'15-Present	Technical Secretary at Association for Computing Activities, *IIT Kanpur* 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, C#, Scala, Haskell
Operating Systems	Gentoo Linux, Arch Linux, Ubuntu
Utilities	Vim, Git, 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 (**)	Linear Algebra and O.D.Es	Introduction to Calculus

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

Interests

Cyber Security	Web Development
Operating Systems	Functional Programming