Saksham Sharma

Sophomore Undergraduate
Computer Science and Engineering

Indian Institute of Technology Kanpur
Email: saksham0808@gmail.com
Email: sakshams@(cse.)iitk.ac.in

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	Arch Linux, Gentoo, 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 Calculus
Linear Algebra	Ordinary Differential Equations	Introduction to Logic(*)
Discrete Mathematics(*)	Data Structures and Algorithms(**)	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