

# Saurabh Jain

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## Education

Degree / Certificate	Institution	C.G.P.A. * / Percentage
B.Tech (Computer Science) - 2015	Indian Institute of Technology, Mandi	7.78 / 10.0
Class XII, CBSE Board - 2011	D.A.V. Public School, Delhi	91.6 %
Class X, CBSE Board - 2009	D.A.V. Public School, Delhi	84.2 %

\*after completion of 5 semesters.

## Internship

- ♦ **RedCarpet** (<http://redcarpetup.com>) – Gurgaon, India (Dec'13 - Feb'14)  
Full Stack Web Developer
  - Built the web framework for a start up to accommodate different kinds of users - Customers, Merchants, etc., developed the relationship between them and created different level of transactions.
  - Optimally Designed and Developed the database to achieve Gamification- awarding points to Customers for each different kind of activity completed like Registration, Redemption of points, etc.
  - Defined rules engine to automatically send the mails to a segment of users using MailChimp API. Transaction emails sent using Amazon SES.
  - REST API to execute a set of operations like create users, etc. on the database level and to connect with desktop app. Used HMAC to check the authenticity of message passed in the request.
  - **Technologies/APIs Used**- Ruby on Rails, Amazon SES, MailChimp, Amazon EC2 - Linux.
- ♦ **Clues Network** (<http://shopclues.com>) – Gurgaon, India (Dec'12 – Jan'13)  
Implementing Continuous Monitoring of Commercial Website
  - Developed a software that checks the vital statistics of the commercial website on predefined intervals.
  - Displayed the system response time for various components using redundant inclusions in the graph.
  - Implemented the Mail Service Java API to automate the process of sending reports in case of any failure.
  - **Technologies Used** – J2SE, J2EE, Selenium, Maven, ANT, TestNG, Eclipse, platform- Linux.

## Academic Projects

- ♦ **BTP – Online Judge with Problem Recommender System** (Mar'14 –Present)
  - Developing a platform where users can submit the solutions for problems based on Algorithms, Machine Learning and Artificial Intelligence.
  - To conduct timed programming contests and to publish editorials/tutorials to prepare for IT interviews and placements.
  - Recommender System – To suggest problems to the users with various difficulty sets based on their experience levels.
  - Forum – To facilitate discussions related to solving problems and their analysis like asymptotic notations.
- ♦ **Improvements and Enhancements for Plasma Media Center at KDE** (April 2013)  
(a FOSS project in Google Summer of Code'13)
  - Aimed to develop a software which embeds functionalities of other softwares like music player, Image viewer, etc.
  - Added features like easy shuffle, swipe to delete etc to the music player.
  - Analysed the dependencies between different functionalities and did bug fixes.
  - Technologies used – Linux (platform), Qt/QML, C++, Qt Creator.
- ♦ **Automatic Navigation Tool for Visually Impaired Person** (Feb'13 – Jun'13)
  - Developed a device that could guide a blind person from one place to another safely.

- Automated the whole process by incorporating GPS device.
  - Designed and implemented the algorithms to track the user's location, navigate him along the desired path and alert in case of any obstacle.
  - Technologies used – C++ , Arduino.
- ♦ **Configuring High-Availability Linux on cluster at IIT Mandi** (Sep'12 - Nov'12)
    - Developed a system that is continuously operational for desirable period of time.
    - Demonstrated the continued operation of the web server in the face of system and network failures.
    - Discovered the situations in which fail over gets delayed or does not work.
    - Technologies used – Linux (platform), Heartbeat, Pacemaker.

## Technical Skills

**Programming Languages** : C, C++, Java, C#, Ruby, Python, Perl.

**DBMS** : PostgreSQL, MySQL.

**Web skills** : Ruby on Rails, HTML5, PHP, JavaScript, CSS, J2EE web services, Joomla.

**Operating System** : Linux (Ubuntu/ CentOS), Windows 7/XP.

**Other tools** : Qt Creator, Netbeans, Selenium, Eclipse, Microsoft Visual Studio 2010 & Blend.

## Awards & Achievements

- ♦ Qualified for National Finals of **Microsoft Hackcon'14**, 1<sup>st</sup> National College Hacking Contest organized by Microsoft India, held onsite in March'14. Stood **14/40+** teams selected in the online qualifiers.
- ♦ Qualified for **ACM- ICPC** (International Collegiate Programming Contest), the world's largest programming contest, Asia Amritapuri Regional **Finals'2013**, stood **71/415** teams participated in the final round.
- ♦ Represented IIT Mandi at **1<sup>st</sup> ACM India Chapters Summit** held at VIT University. (Aug'13)
- ♦ Awarded the **certificate of excellence** for efficiently organizing and managing the activities of Programming Club on the eve of **4<sup>th</sup> Foundation day** of IIT Mandi. (Feb'13)
- ♦ Qualified for **ACM-ICPC Asia Kanpur Regional Finals'2012**. Stood 35/64 teams participated.
- ♦ Secured **2nd** rank in Badminton at Rann, 2012 – IIT Mandi's 1st Annual Sports Festival.
- ♦ Reached the **semi-finals** in Badminton at Udghosh, 2012 – IIT Kanpur's Annual Sports Festival.
- ♦ Secured **2nd** rank in Sell-X - a marketing and strategical event held during Exodia, 2012- IIT Mandi Technical-Cultural Fest.
- ♦ Secured an All India Rank of **4100** in **IIT-JEE'11** out of a total of 4,50,000+ appearing candidates.
- ♦ Secured an All India Rank of **5167** in **AIEEE'11** conducted by CBSE out of a total of 10,00,000+ appearing candidates.

## Positions of Responsibility

- ♦ **Chair**, Association for Computing Machinery (ACM) Student Chapter at IIT Mandi. (Nov'12 – Present)
- ♦ **Coordinator**, Programming Club at IIT Mandi. (Aug'12 – Present)
- ♦ **Member** of WING (Website Information and Networks Group) at IIT Mandi. (June'12 - Present)

## Co-Curricular Activities

- ♦ Problem setter for Mettl's recruitment process – algorithm round.
- ♦ Problem Setter and Organizer of **Dementia** (<http://www.hackerearth.com/dementia/>) and **Obfuscation** (<http://www.codechef.com/OBFS2013/>) –2 different programming competitions held online in Exodia'13.
- ♦ Conducted various tutorials sessions of different programming languages, Linux OS for the fresh batches under the aegis of Programming Club.
- ♦ To pursue my interest in programming and mathematics, I regularly participate in timed programming contests, notable CodeChef, TopCoder, Codeforces (Div1) etc. and have solved quite a lot of mathematical problems/ puzzles on ProjectEuler.
- ♦ My Spoj and Codechef profiles are available online at the following urls: (<http://spoj.com/users/saurabhskj>) and (<http://codechef.com/users/saurabhskj>).
- ♦ Developed and published the Microsoft windows phone applications in the windows phone marketplace as part of the “**I unlock joy**” program.