

## Aseem Raj Baranwal

Final Year Undergraduate

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### EDUCATION

Degree / Examination	University	Score	Year
B. Tech. in Computer Science	Indian Institute of Technology Jodhpur	8.67 / 10	2012 – Present
AISSCE - 12 <sup>th</sup>	Delhi Public School Ghaziabad	94 %	2012
CISCE - 10 <sup>th</sup>	St. Mary's Convent School Ghaziabad	93.2 %	2010

### EXPERIENCE AND PROJECTS

- **Internship at Microsoft India R&D** *(May - July 2015)*
  - Designed a time based resource allocation scheme for virtual machines
  - Developed a web interface for developers and testers to create and use VMs
  - Language/Tools: C#, MySQL, ASP.NET, PowerShell, VCenter, JavaScript
- **Bandwidth Guarantee in Data Centre Networks | B. Tech. Project** *(Sep 2015 - Present)*
  - Surveyed about proposed solutions to existing bandwidth allocation problems in data centers
  - Developing an intelligent dynamic algorithm to heuristically allocate bandwidth to applications in case of server faults and introduction of new applications in the system
- **Dominating Set in Interval Graphs | Research Project** *(May 2014)*
  - Devised a linear time algorithm for computing a minimum distance total k-dominating set for interval graphs under the guidance of Dr Dinabandhu Pradhan
- **Code Judge** *(May 2014)*
  - Developed the web UI using Python-Django framework to fetch user submissions, make database updates, build the leader-board and deliver results in collaboration with the judge
  - The judge is an IO bound platform built on node.js
- **Collaboard** *(September 2014)*
  - Used Node.js with Express.js and Socket.io
  - Implemented a multi-user chatroom system with an additional canvas for collaborative sketching by multiple users in a chat room simultaneously

### ACHIEVEMENTS

- Team qualified for **ACM ICPC Asia Regionals 2013, 2014 and 2015**
- Active on [codeforces](#) (rating: **1949, master**) and [codechef](#) (best national rank: **18**)
- **Google APAC 2015** rank **29** in Round B, rank **35** in Round C
- Selected among 300 students nationally for **MIT Media Lab** workshop 2015
- National team rank **22** in **InCTF 2015** Hacking Contest
- National team rank **19** and **15** in **Microsoft CTF 2014** and 2015

### SKILLS

- Programming Languages: C, C++, C#, Python, JavaScript, PHP
- Platforms and Frameworks: Node, Octave, Django, ASP.NET

### OTHER ACTIVITIES

- More side projects and scripts at [github.com/aseemraj](https://github.com/aseemraj)
- Author of [thefermion.wordpress.com](http://thefermion.wordpress.com)
- Attended Defcon India 2016, KDE Conf. 2013 and JS Conf. 2012
- Coordinator, Programming Club IIT Jodhpur for the year 2013-2014