

# Utkarsh Agarwal

Third Year Undergraduate  
Dept. of Computer Science and Engineering  
IIT Kanpur

Ph: 7388447711  
E-mail: utkarsha@iitk.ac.in

## Educational Qualifications

Year	Degree	Institution	CPI/Percentage
2017(Expected)	Bachelor of Technology	Indian Institute of Technology, Kanpur	9.4/10
2013	AISSE(CBSE 12th)	DAV Public School, Kota	92.4
2011	AISSE(CBSE 10th)	Mayoor School, Ajmer	10/10

## Scholastic Achievements

- Secured All India Rank (AIR) **132** (top 0.09%) in **IIT Joint Entrance Examination 2013** amongst **0.15 million** candidates
- Secured **99.87** percentile in **JEE Main 2013** amongst **1.4 million** students from all over India
- Selected to appear in **INJSO, 2010; INAO(Jr.), 2010** and **INChO, 2013** for being amongst the **top 300 in India**
- Selected for **NTSE Scholarship, 2009**: a prestigious scholarship funded by NCERT, Delhi

## Professional Experience

- Summer Internship at Altisource Business Solutions Pvt. Ltd., Bengaluru (May'15 - Jul'15)
- Project CHEF**: To automate configuration management of the organisation
  - Attained automation of **custom installation** of various applications along with reporting any error or a major update
  - Automated inventory management with reporting of key parameters like IP address, CPU count, memory, storage, etc.
  - Accelerated the building, upgrading and repairing of infrastructure as well as achieved the upkeep of a **hundred node cluster**
- Project Graphite**: To report server parameters through graphs using Graphite
  - Scripted in Python to input data which involved data parsing and socket programming
  - Tested plotting of **large dynamic data** over internal network and achieved real time monitoring of a scalable infrastructure
  - Transformed** and **expedited** the **auditing process** in the organisation by monitoring crucial parameters through graphs

## Project

- Scotland Yard Computer Game under Programming Club, IITK (May'14 - Jun'14)
  - Designed GUI of the game using Pygame library in Python and used Graph theory to link the map of the city with a graph
  - Implemented the AI using Minimax Algorithm and used socket programming to extend it to a **Multiplayer** Version over **LAN**

## Relevant Courses

- Computer Science: Fundamentals of Computing, Data Structure and Algorithm, Computing Laboratory, Logic for Computer Science, Computer Organization, Operating System<sup>#</sup>, Algorithms II<sup>#</sup>, Theory of Computation<sup>#</sup>
- Others: Probability and Statistics, Discrete Math, Linear Algebra, Abstract Algebra, Basic Calculus (Ongoing: <sup>#</sup>)

## Technical Skills

- Programming Languages: Assembly, C, C++, Python
- OS: Linux, Windows
- Others: Bash scripting, Git, GNU Plot, Latex, Octave, Verilog
- Tools: CHEF, Graphite

## Extra-Curricular Achievements

Programming	<ul style="list-style-type: none"><li>Active participation in contests on Codeforces, Codechef and Spoj with <b>150 plus</b> problems solved</li><li>Rated expert on Codeforces with 1600 plus rating</li></ul>
Debating / Oration	<ul style="list-style-type: none"><li>Stood first in Parliamentary Debate in Galaxy'14, an Intra IITK cultural festival</li><li>Adjudged <b>Best Debater</b> in School and participated in various Inter School Debate Competitions</li></ul>
Alumni Contact Program (ACP), IITK	<ul style="list-style-type: none"><li>Mentored a team of six for contacting Alumni to foster a healthy relationship with them</li><li>Adjudged an Executive caller for exhibiting commendable soft skills</li></ul>

## Positions of Responsibility

Senior Executive, Public Relations, Antaragni (Mar'14 - Nov'14)	<ul style="list-style-type: none"><li>Invited eminent personalities in the field of economics for Antaragni and looked after them</li><li>Convinced NGOs to organise Antaragni Leadership Initiative (ALI) in major cities viz. Delhi and Lucknow</li><li>Helped in managing India Inspired, a panel discussion and ALI, a nationwide hunt for leaders</li></ul>
Academic Mentor (Jul'14 - Mar'15)	<ul style="list-style-type: none"><li>Took hall level classes and did peer to peer mentoring for academically deficient students</li></ul>