

# Kunal Singhal

Junior Undergrad, Computer Science,  
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## Education

### Indian Institute of Technology Delhi

*Bachelor of Technology*

CGPA: 9.1

New Delhi, India  
2012 - 2016 (*expected*)

## Relevant Courses Taken

Artificial Intelligence	Design Practices in Computer Science	Compiler Design
Operating Systems	Computer Networks	Deep Learning
Programming Languages	Cryptography	Computer Architecture
Probability Theory	Combinatorics	Machine Learning
Algorithms	Graph Algorithms	Natural Language Processing

## Work Experience

- **Software Engineering Intern** Facebook, CA  
*Java Infrastructure team under Avik Chaudhuri* *Summer 2015*
  - developed a transpiler to convert TypeScript declaration files to Flow declaration files
- **Research intern** UC Irvine, CA  
*ICS department under Prof. Sharad Mehrotra* *Summer 2014*
  - worked on classification of tweets based on Personally Identifiable Information

## Other Projects

- **Genre and gender classification of song lyrics** IIT Delhi  
*course project with Archit Sachdva under Prof. Mausam* *November 2014*
  - structural as well as word level features used in an SVM classifier
- **No Dues System for IIT Delhi** IIT Delhi  
*with Shubham Jindal and Phani Mahesh* *January 2015 - August 2015*
  - SPA built using Mithril with API served by a express + node server
- **Next generation Open Information Extraction** IIT Delhi  
*Summer Project with Satwant Rana and Prof. Mausam* *Summer 2014 - January 2015*
  - improved performance of openIE on sentences containing lists
- **AI Game Player for Connect n,m,k** IIT Delhi  
*course project under Prof. Mausam* *Jan 2014 - Apr 2014*
  - simple mini-max and alpha beta pruning with hand crafted heuristics

- **Prolog Interpreter1** IIT Delhi  
*course project under Prof. Sanjeeva Prasad* *Feb 2014 - Mar 2014*  
 – ideas of backtracking and unification of terms were exploited
- **Single Cycle Processor Design** IIT Delhi  
*course project under Prof. Smruti Ranjan Sarangi* *Feb 2014 - Mar 2014*  
 – HDL description of a risc processor  
 – being used as online reference for the book An Introduction to Computer Architecture

## Sport Programming

- ICPC 2015 World Finalist, Morocco
- Indian team member in **International Olympiad in Informatics, 2012**
- TopCoder: Yellow Rated - 1758 (among top 20 in India)

## Awards, Grants & Honours

International Olympiad in Informatics 2012 <i>Indian Team Member</i>	JULY 2012
International Physics Olympiad 2012 <i>Silver Award</i>	JULY 2012
Asian Physics Olympiad 2012 <i>Silver Award</i>	MAY 2012
Indian National Mathematics Olympiad 2011 <i>All India First Position</i>	2011
Institute Silver Medal for Academic Excellence	FEB 2013
Aditya Birla Scholarship 2012	SEP 2012
OP Jindal Engineering and Management Scholarship 2012	SEP 2012
KVPY Scholarship 2011	2011

## Designing and Coding Skills

<b>Extensive</b>	PYTHON, C++, OCAML
<b>Intermediate</b>	JAVASCRIPT, REACT, WEB2PY, NODEJS, MATLAB, JAVA
<b>Basic</b>	NUMPY, CSS

## Community Involvement

Lecturer and Operations Coordinator, Coding Club	July, 2014 - Present
Cultural Secretary, ACES	Dec, 2012 - Apr, 2014
Convener from Department, AIC	Mar, 2013 - Mar, 2014