

# Kunal Singhal

Junior Undergrad, Computer Science,  
Indian Institute of Technology Delhi

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## Which university did I attend?

**Indian Institute of Technology Delhi**

*Bachelor of Technology*

CGPA: 9.2

New Delhi, India

2012 - 2016

## The awesome places I worked at!

- **Software Engineer** Facebook UK  
*Work on Facebook Audience Network* *November 2016 - Present*
  - currently building tools for brand safety for brand sensitive advertisers
  - mentoring an intern and a new hire
- **Co Founder, Atomics** Delhi  
*A content discovery platform that gives you personalized short reads* *2015 - 2016*
  - closed the company in August 2016.
- **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

## Some University Projects

- **Zero Overhead On-chip Monitoring** IIT Delhi  
*with Abhay Mitra under Prof. P.R. Panda and Prof. Sanjeeva Prasad* *Aug 2015 - May 2016*
  - runtime verification of programs on a separate FPGA circuit
  - paper submitted in RV16
- **Visualizing CharRNNs** IIT Delhi  
*course project with Abhay Mitra under Prof. Subhashis Banerjee* *Fall 2015*
  - visualizing hidden states in generative character level RNN (with LSTM cells)
- **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
- **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

- **Prolog Interpreter**  
*course project under Prof. Sanjeeva Prasad*
  - ideas of backtracking and unification of terms were exploited

IIT Delhi  
Feb 2014 - Mar 2014

- **Single Cycle Processor Design**  
*course project under Prof. Smruti Ranjan Sarangi*
  - HDL description of a risc processor
  - being used as online reference for the book An Introduction to Computer Architecture

IIT Delhi  
Feb 2014 - Mar 2014

### Sport Programming (spent a lot of time doing this!)

- ICPC 2016 World Finalist, Thailand (Team Angle)
- ICPC 2015 World Finalist, Morocco (Team Angle)
- Indian team member in **International Olympiad in Informatics, 2012**
- TopCoder: Yellow Rated - 1758 (among top 20 in India)

### Results of some other cool things

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 <i>IIT Delhi</i>	FEB 2013

### I am a polyglot! (isn't everyone?)

**Fluent**      JAVASCRIPT (NODEJS, REACTJS), PYTHON (FLASK, WEB2PY), C++, OCAML, PHP (HACK)  
**Can also use** JAVA, CSS or pretty much anything else!