

Kunal Singhal

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Indian Institute of Technology Delhi

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Education

Indian Institute of Technology Delhi

Bachelor of Technology

CGPA: 9.442

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 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

- 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

Extensive	PYTHON, C++, OCAML
Intermediate	JAVASCRIPT, REACT, WEB2PY, NODEJS, MATLAB, JAVA
Basic	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