# Kunal Singhal
*Curriculum Vitæ*

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## RESEARCH INTERESTS

- Machine Learning and Statistical Analysis
- Game and Economic Theory
- Processor Design and Computer Architecture
- Application of Number Theory in Cryptogaphy

## SPORT PROGRAMMING

- Indian Team Member in **International Olympiad in Informatics (IOI) 2012**
- My team (team Angle) **ranked 9th in ICPC regionals Amritapuri**, best in IIT Delhi.
- Codechef handle : knsn1994
- TopCoder handle : knsn1994

## AWARDS AND ACHIEVEMENTS

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| JULY 2012 | **International Physics Olympiad 2012** <br> Silver Award |
| MAY 2012 | **Asian Physics Olympiad 2012** <br> Silver Award |
| 2011 | **Indian National Mathematics Olympiad 2011** <br> All India First Position |
| FEB 2013 | **Institute Silver Medal for Academic Excellenece** <br> Given for obtaining highest CPI at IIT Delhi |
| MAY 2012 | **IIT-JEE 2012 All India Rank 18** <br> Got 18th rank among more than 500,000 students |
| SEP 2012 | **Aditya Birla Scholarship 2012** <br> Given only to 15 engineering students all India |
| SEP 2012 | **OP Jindal Engineering and Management Scholarship 2012** <br> Given to one student of each Year |
| 2011 | **KVPY Scholarship 2011** <br> Scholarship given for encouraging schience students |
| MAY 2012 | **AIEEE 2012 All India Rank 19** <br> Got 19th position among over 1 million students. |

## EDUCATION

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| 2013 – PRESENT | **Bachelor of Technology** <br> COMPUTER SCIENCE <br> *Indian Institute of Technology Delhi* <br> CPI: 9.56 |

## SOME COURSES UNDERTAKEN AT IIT DELHI

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| PRESENT | **Discrete Mathematical Structures** <br> *Prof. Ragesh Jaiswal* |
| PRESENT | **Combinatorics** <br> *Prof. Amitabha Tripathi* |
| PRESENT | **Computer Architecture** <br> *Prof. Smruti Ranjan Sarangi* <br> >Made an Assembly Emulator |
| PRESENT | **Design Practices in Computer Science** <br> >Made a 3D bike race game using openGL <br> >Working on simulation of a Social Network. |
| PRESENT | **Digital Electronics Circuits** <br> *Prof. G.S. Visweswaran* |
| JAN-APR '13 | **Data Structures** <br> *Prof. Amit Kumar* |

## DESIGNING AND CODING SKILLS

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| Extensive | PYTHON, C++ |
| Intermediate | HTML5, CSS3, JAVASCRIPT, C <br> PHP, LaTeX, JAVA, SQL, BASH, NUMPY |
| Basic | DJANGO FRAMEWORK, APPLE SCRIPT <br> STANDARD ML, BASIC, PERL |

## COMMUNITY INVOLVEMENT

- Representative at ACES (Association of Computer Engineers, IIT Delhi)
- Class Convener at IIT Delhi

## OTHER INTERESTS

- I have keen interest in human psychology and philosophy. I also write a blog: Phyryders.
- I love to play Guitar and Synth.