Kunal Singhal

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Education

Indian Institute of Technology Delhi

Bachelor of Technology

CGPA: 9.56

New Delhi, India 2012 - 2016 (expected)

Relavent Courses Taken

Computer Architecture Design Practices in Computer Science Digital Electronic Circuits

Data Structures Descrete Mathematical Structures Combinatorics
Calculas and Analysis Linear Algebra and Matrices Quantum Physics*
Programming Languages* Artificial Intelligence* Cryptography*
Probability Theory and Stochastic Processes* Machine Learning#

Algorithms#

*Pursuing in spring 2014 #Online Courses at coursera.org

Awards, Grants & Honours

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

Projects

• 3D bike race game

Prof. Subodh Kumar, 2012

- -Used OpenGL as graphics library.
- -A dedicated physics engine was programmed.
- -A database for High Scores is maintained.
- -Used frustum culling for enhanchning the game speed.

• Assembly Emulator

Prof. Smruti Ranjan Sarangi, 2012

- -Supports ARM assembly and SimpleRisc Assembly codes.
- -Supports free flow of the code.
- -Python's high order techniques like lambda functions, maps and filters used for programming the emulator.

• Social Network Simulation and Analysis

Prof. Subodh Kumar, 2012

- -Multiprocessing and multithread used to achieve simulation.
- -Iter process communication is eastablished by Message Queues
- -Final network after the simulation is stored as a graphml file.
- -In the analysis of the network, various queries such as shotest path, importance and clique size can be performed.

Sport Programming

- Indian team member in International Olympiad in Informatics, 2012
- My team (team Angle) ranked 9th in ICPC Amritapuri Regionals. Best in IIT Delhi.

Codechef handle : knsn1994TopCoder handle : knsn1994

Designing and Coding Skills

Extensive PYTHON, C++

Intermediate HTML5, CSS3, JAVASCRIPT, C, PHP, LATEX, JAVA, SQL, BASH, NUMPY

Basic DJANGO FRAMEWORK, APPLE SCRIPT, STANDARD ML, BASIC, PERL

Community Involvement

- Representative at ACES (Association of Computer Engineers, IIT Delhi)
- Member of Electronics Club, 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.
- I am a part of my hostel Dance Club.