

Bhupendra Kastore

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EDUCATION

Year	Degree	Institution	Performance
2015	B.T, Computer Science and Engineering	IIT Kanpur	8.0/10.0*
2011	Class 12 : CBSE Board	KV 2 GCF, Jabalpur	88.8%
2009	Class 10 : CBSE Board	KV 2 GCF, Jabalpur	91.6%

*after completion of 4 semesters

INTERESTS

- Algorithms and Data Structures.
- Web Development.
- Algorithmic Programming Contests.

SCHOLASTIC ACHIEVEMENTS

- Achieved an **All India Rank (AIR) 210** in **IIT-JEE'11** in which nearly 5Lac students appeared.
- Secured **AIR 17 Rank (State Topper)** in AIEEE'11 in which nearly 11Lac students appeared.
- My team secured 2nd prize at XCEED'13 (optimization problem contest), organized by Kurukshetra'13, Anna University.
- My team came 2nd in Instant (Algorithmic programming contest), organized by Teachkriti'13, IIT Kanpur.
- Secured AIR 18 in 13th National Science Olympiad.
- Secured AIR 54 in 12th National Science Olympiad.
- Secured AIR 65 in 10th National Cyber Olympiad.
- Secured AIR 155 in 9th National Cyber Olympiad.
- Secured AIR 558 in 10th National Science Olympiad.
- Secured AIR 32 in KV JMO, class 10th.
- Secured International Rank 147 in 4th International Mathematics Olympiad.

ONLINE HANDLES

- Topcoder : bhupkas
- Codeforces : bhupkas
- Codechef : bhupkas
- Spoj : bhupkas

KEY ACADEMIC PROJECTS

Smallest Enclosing Circle

(May-July 2013)

(Mentor: Prof. S. Baswana, IIT Kanpur)

- Implemented the existing randomized algorithm for finding the smallest enclosing circle of given points in a plane.
- Analyzed the algorithm experimentally, and proved the average linear time complexity of the algorithm experimentally.
- Designed online applets which shows how the algorithm works.

Jigsaw Puzzle

(Spring 2013)

(Course Project, Computing Laboratory)

- Designed Jigsaw Puzzle, in which user can drag the pieces and put them in their correct places to win the game.
- Algorithm was implemented in python and the GUI was provided using Pygame.

Computer Architecture

(Spring 2013)

(Course Project, Introduction to Computer Organisation)

- Developed a computer architecture which can run a basic object code.
- The architecture supports basic operations such as addition, jumping, looping.

Card Game 29

(May-June 2012)

(Under Programming Club, IIT Kanpur)

- Developed a computer version of the card game 29, which provides a user-friendly interface to play the cards.
- Used elementary Artificial Intelligence algorithms.
- Provided GUI using wxPython.

Genetic Programming

(Spring 2012)

(Under Association of Computing Activities, IIT Kanpur)

- Implemented a genetic algorithm to solve the Brachistochrone Problem.
- Took random sample and genetically improve them, till we get an almost optimal solution.

RELEVANT COURSES

- Operating Systems*
- Computer Networks*
- Theory of Computation*
- Randomized Algorithm*
- Fundamentals of Computing
- Data Structures and Algorithms
- Discrete Mathematics
- Intro. to Computer Organization
- Introduction to Mathematical Logic
- Probability and Statistics
- Computing Laboratory

*to be completed in July-November'13

TECHNICAL SKILLS

Programming Languages	C, C++, Python, Verilog
Web	HTML, CSS, JavaScript, PHP, mysql
Platforms	Windows, Linux
Tools	Latex, Beamer, Make, Shell, GNU Octave, wxPython, PYgame

POSITIONS OF RESPONSIBILITY

- **Student Guide, Counseling Service, IIT Kanpur** for academic year 2012-13
 - Mentored 6 freshmen students and assisted them in getting familiar to the college environment.
 - Assisted in the successful organization of the orientation programme for the benefit of around 880 students in IIT Kanpur.
- **Senior Web Executive, Techkriti'13, IIT Kanpur.**
 - Contributed in designing and developing the main website for the Annual Technical Festival of IIT Kanpur, Techkriti'13.
- **Assistant Coordinator, Software Corner, Techkriti'13, IIT Kanpur.**
 - Managed various events under Software Corner.
 - Contributed in designing the problem statements for the events.