



**Vaibhav Gupta**  
**Computer Science & Engineering**  
**Indian Institute of Technology, Bombay**

**09005019**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 02/12/1991**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.75
Intermediate/+2	CBSE	DAV Public School	2009	90.20
Matriculation	CBSE	DAV Public School	2007	96.20

### ***Scholastic Achievements:***

- Awarded **Certificate of Merit and Gold medal** for being among the top 35 candidates at the **Indian National Physics Olympiad (INPhO) 2009**.
- Secured **All India Rank 54** in **IIT Joint Entrance Exam (2009)** out of about 400000 students who took the test.
- Secured All India Rank 260 in AIEEE 2009 out of 1,000,000 students who took the test.
- Awarded **National Talent Search Examination (NTSE)** Scholarship by **NCERT**.
- Secured **All India Rank 6** in **International Mathematics Olympiad (IMO)** (awarded a scholarship of Rs.5,100) conducted by Science Olympiad Foundation (SOF) in 2009.
- Secured All India Rank 30 in National Science Talent Search Examination (NSTSE) conducted by Unified Council in 2009.
- Secured All India Rank 32 in National Science Olympiad (NSO) conducted by Science Olympiad Foundation(SOF) in 2009.
- Awarded Mamraj Agarwal Rashtriya Puraskar by Late Shri S.K. Singh, the then Governor of Rajasthan for attaining 96.2% in AISSE-2007.
- Awarded Certificate of Merit (Nation's Top 0.1%) in subject Science (secured 99/100) in AISSE-2007 by CBSE.
- Awarded Gold Medal by Mahatama Hansraj Foundation for attaining 90.2% in AISSCE-2009.

### ***Internship:***

#### ***Server Web and Cloud Programmer:***

***(May-July 2011)***

*Ranimol Corporation (Boston, MA, USA)*

- Developed a demo version of a website where electronic money changes hand on just one click in your internet browser. The idea was to use the concept of social networking in banking sector to make the flow of money smooth.
- The website development included the basics of server hosting, browser scripting (using php) and handling databases (using MySql). The front end was developed using HTML, CSS and Ajax.

#### ***Lecturer :***

***(May-July 2011)***

*Planceess (Mumbai, India)*

- Involved in making video lectures of Mathematics and Physics along with content checking, managing a 10 member team to prepare material for IIT-JEE aspirants.

#### ***Counsellor:***

***(June-2010)***

*Resonance Eduventures Pvt. Ltd. (Mumbai, India)*

- Worked as a counsellor and gave motivational lectures to students of classes XI and XII preparing for IIT-JEE.

## ***Academic Projects:***

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### ***Data Structures and Analysis:***

***(November 2010)***

*Guide: Prof. Om Prakash Damani*

- Implemented four data structures namely Binomial heap, AVL tree, Splay tree and Fibonacci heap in C++.
- Space- time analysis of all the four data structures and comparisons.

### ***Chess:***

***(March 2010)***

*Guide: Prof. Amitabh Sanyal (HOD, CSE IIT Bombay).*

- Coded Human vs AI(Artificial Intelligence) CHESS game with real time performance in PLT Scheme.
- The AI move was decided by selecting the most favourable future out of all the possible ones maintained in an efficient Priority Queue.
- Implemented Graphical User Interface for the same to provide the gaming experience.

## ***Courses Undertaken:***

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### ***Core:***

- Introduction to Programming Techniques in C++
- Abstraction and Paradigms in Computing
- Data Structures and Algorithms
- Discrete Structures
- Automata Theory and Logic
- Design and Analysis of Algorithms
- Database and Information Systems\*

### ***Non-core:***

- Calculus
- Linear Algebra
- Differential Equation
- Data Analysis and Interpretation
- Numerical Analysis
- Economics
- Human-Computer Interaction
- Technology and Animation\*

\*(pursuing) will be completed till April 2012

## ***Extra-Curricular Activities:***

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- Qualified the 26 days **Basic Mountaineering Course (BMC)** with an **A Grade** from Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports (ABVIMAS), Manali.
- Winner of **Institute Football League 2010** and **Institute Football League Cup 2011**, both comprising 8 teams and more than 200 participants.
- Stood **1<sup>st</sup>** in **Gyrations 2010**, the inter hostel group dance competition in IIT Bombay.
- Stood **2<sup>nd</sup>** in **Group Dance Competition** at **Mood Indigo 2010**.
- Member of the choreography team of winning **Performance Arts Festival (PAF)-2011** at IIT Bombay.

## ***Position of Responsibility:***

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- *Coordinator in the Infrastructure dept. in Techfest-2011(annual science and technology festival of IIT Bombay).*  
Managed the luxurious external transport during the festival and looked after the stay and movement of all the guests and performers during the festival.
- *Social and Music Secretary of CSEA(Computer Science and Engineering Association)*  
Organising all the social events as well as workshops that are held by CSEA in the department.

## ***Programming Skills:***

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- C, C++, Java, Python, PLT Scheme, Pearl, Bash, Awk, VHDL
- HTML, CSS, Ajax, PHP, MySql