**ACADEMIC ACHIEVEMENTS**

* Secured All India Rank of **53** out of approximately 5 lakh candidates in the **IIT-JEE 2011**
* Secured All India Rank of **51** out of approximately 12 lakh candidates in the **AIEEE 2011**
* Secured All India Rank of **7** in the **Vellore Institute of Technology Engineering Entrance Examination** conducted for admissions to VIT (Vellore Institute of Technology) in **2011**
* Secured All India Rank of **130** in the entrance exam for **Indian Institute of Space Technology** held in 2011
* Qualified for **Indian National Physics Olympiad** in **2010**. Secured **44** marks out of **65**, missing the cutoff for the **Orientation cum Selection Camp** by 3 marks.
* Qualified for **Indian National Mathematics Olympiad** in **2011** after securing **64th** rank in the **Regional Mathematics Olympiad** for the Maharashtra and Goa Region. (<http://aryanclasses.com/rmo/RMO-Maharashtra-Goa-region.html>)
* Offered full scholarship by **Nanyang Technological University, Singapore** for a four-year degree in computer science to be taken on-campus **starting in Fall 2011**
* **All-India Topper** in the **2005-2006** **National Cyber Olympiad**

**PROJECTS**

1. **Monopoly – the game** (**Guide** – Prof D B Phatak)Coded up a computer version of the board game **Monopoly** in C++ along with six other team members. GUI for the project implemented via **EZWindow.** Project done as part of **Introduction to Computer Programming and Utilisation**
2. **Chinese Checkers** (**Guide** – Prof Amitabha Sanyal)Coded up a computer version of the board game **Chinese Checkers** complete with intuitive **graphical user interface.** Learnt about simple **artificial intelligence heuristics** such as the **minimax algorithm** and **alpha-beta pruning**. Wrote code for these algorithms in Racket (a dialect of Lisp). Game allows users to play against different AI algorithms or sit back and observe as two different algorithms play off against each other. Project done as part of **Abstractions and Paradigms in Programming.**

**COURSES COMPLETED**

* **Computer Science Courses**Introduction to Computer Programming and Utilization **(with lab course)**Abstractions and Paradigms in Programming **(with lab course)**Data Structures and Algorithms\* **(with lab course)**Discrete Structures\*
* **Non-CS Courses (grouped by department)  
  Statistics** Data Analysis and Interpretation  
  **Electrical Engineering** Experimental and Measurement Laboratory\*  
  **Mathematics** Calculus, Linear Algebra, Differential Equations **Science** Modern Physics, Chemistry  
  **Humanities** Economics, Environmental Science and Engineering\*  
  **Languages** Introductory Chinese, Introductory German\*\*  
  **Other** Mechanical Workshop, Engineering Drawing

**\*** *to be completed by Nov 2012*

**\*\*** *to be completed by Apr 2013*

**TECHNICAL SKILLS**

* **Computer Languages (programming and otherwise)** –C, C++, Python 2 / 3, Racket (Scheme), Scilab, HTML, Prolog (elementary)
* **Operating Systems** – Microsoft Windows, GNU/Linux (Ubuntu)

**AREAS OF INTEREST**

* **Theoretical computer science** – algorithms, graph theory, quantum computation, cryptography, data mining
* **Mathematics** – algebra, number theory
* **Game theory**
* **Computer programming** – Object-oriented programming, functional programming, esoteric languages

**OTHER INTERESTS, PASSIONS AND EXTRACURRICULAR ACTIVITES**

* Passionate about **linguistics** and **foreign languages**
  + **fluent in French** (studied for 7 years at the school level from **2004-2011**)
  + **moderately fluent in Chinese** (completed one-year introductory course at IITB certified by **Beijing Jiaotong University** in **2011-2012**)
  + **learning German** (ongoing one-year introductory course at IITB in **2012-2013**)
* Successfully completed the **2012** offering of **Coursera’s** six-week online course **Algorithms: Design and Analysis I** conducted by **Tim Roughgarden** from **Stanford University.**
* Currently actively working on three courses by **Coursera** – **Machine Learning**, **Web Intelligence** and **Big** **Data**, and **Quantum Mechanics and Quantum Computation**.
* Completed one year of **National Service Scheme (2011-2012)**. Performed ‘**shramdaan’** in rural areas of Maharashtra, visited **NGOs** and assisted in the building of a **tubewell.**