

Ranveer Aggarwal
Second Year Undergraduate
Department of Computer Science and Engineering
Indian Institute of Technology, Bombay

EDUCATION	<ul style="list-style-type: none"> • B.Tech. (Hons.) Computer Science and Engineering Indian Institute of Technology Bombay • Intermediate/+2 Lady Anusuya Singhanian Educational Academy (CBSE) [2012] • Matriculation Hem Sheela Model School (CBSE) [2010] 	<p>CGPA: 7.03</p> <p>Aggregate: 92.80%</p> <p>CGPA: 9.60</p>
KEY ACADEMIC PROJECTS	<p>Chess Titans <i>Guide: Prof. Amitabha Sanyal</i></p> <ul style="list-style-type: none"> • One player chess game in PLT Scheme using in-built GUI Toolkit in DrRacket • AI makes use of the Minimax Algorithm with Alpha-Beta Pruning • Heuristics to decide the best move for the computer, at any stage of the game <p>E-Ball <i>Guide : Prof. Abhiram Ranade</i></p> <ul style="list-style-type: none"> • Classic brick breaker game in C++ using Particle Physics • Randomly generating levels with varying difficulty and ball speeds • User Interface designed using the simplecpp package 	<p>Spring 2013</p> <p>Autumn 2012</p>
ACHIEVEMENTS	<ul style="list-style-type: none"> • Member of the team (of four) that stood second runners up in Hackcon '14, Microsoft's national hacking contest, among nearly 250 teams from all over the country • Winner at Microsoft Appathon, <i>code.fun.do</i> held at IIT Bombay in Spring 2014 • Participated in the software design competition at the 2014 Inter-IIT Technical Meet, where IIT Bombay stood 3rd overall. • Podium positions in all freshmen robotics competitions: <ul style="list-style-type: none"> – 1st in <i>autonomous line follower</i> making competition, – 3rd in <i>RC car</i> designing competition and – 2nd in <i>RC football-playing bot</i> making competition 	
SELF PROJECTS AND HACKS	<p>Kapi</p> <p><i>Microsoft code.fun.do</i></p> <ul style="list-style-type: none"> • A note-making app that, along with normal text, typesets maths in \LaTeX format without having to write complicated code, rendered using <i>MathJAX</i> library • Also lets the user draw diagrams and graphs on a canvas (rendered through HTML) <p>Rumor Roll!</p> <p><i>Yahoo! HackU</i></p> <ul style="list-style-type: none"> • A website that displays links, tweets and videos related to rumors about the query • Developed using a mashup of Yahoo! Boss API, Twitter API v2.0 and YouTube API <p>Android Desktop Controller</p> <p><i>Institute Technical Summer Project (ITSP)</i></p> <ul style="list-style-type: none"> • An Android application that uses Bluetooth to control PC through an Android mobile • Used Java's Robot class to assign PC's features to commands passed by device as strings <p>Hostel Website</p> <p>A site for all the hostelites to stay updated on the current events in the hostel, and also a common request/complaint portal, developed using Twitter Bootstrap v3.0</p>	<p>Spring 2014</p> <p>Autumn 2013</p> <p>Summer 2013</p> <p>Autumn 2013</p>

PROFESSIONAL EXPERIENCE	Product Development Intern Winter 2013 <i>Tushky Events and Entertainment</i> Designed a Ranking Algorithm for events and their sellers based on social and analytic data and implemented it on real data.
SCHOLASTIC ACHIEVEMENTS	<ul style="list-style-type: none"> • All India Rank 104 (<i>State Rank 2</i>) among 3.75 lakh participants in <i>National Level Science Talent Search Examination (NSTSE) 2012</i> conducted by Unified Council • Secured All India Rank 1 in <i>International Olympiad of Science (IOS) 2009</i> • All India Rank 53 (<i>State Rank 1</i>) in <i>National Science Olympiad (NSO) 2008</i> conducted by Eduheal Foundation amongst nearly 4 lakh participants • Pursuing Minors at <i>Industrial Design Centre, IIT Bombay</i> • Amongst top 0.005% in AIEEE 2012, an exam taken by over a million students
PROGRAMMING SKILLS	<ul style="list-style-type: none"> • Languages: C++, Java, MIT-Scheme, Python, Rebol, Prolog, L^AT_EX 2_ε • Web Development: HTML5, CSS3, PHP, JavaScript • Engineering Softwares: MATLAB, SCILAB, LabView • Environments: Windows, Linux
POSITIONS OF RESPONSIBILITY	<div> Manager, Web and Coding Club, IIT Bombay April 2014 – Present Manager of one of the largest clubs of IIT Bombay which supports coding and related activities in the institute, promoting coding culture across students of all departments. Responsible for organising Hackathons, talks and many other coding related events. </div> <div> Web Secretary, Hostel 3, IIT Bombay April 2013 – Present Elected as Hostel Web Secretary for Hostel 3. Responsibilities include: <ul style="list-style-type: none"> • Conducting intra-hostel web development workshops and competitions. • Design and maintenance of the hostel website and ensuring that everything done by the hostel council is transparent and publicised through a common web portal </div> <div> Coordinator, TechFest 2014 May 2013 – January 2014 Introduced animation effects on the website for TechFest 2014 using jQuery plugins and coordinated a workshop on Swarm Robotics. </div>
EXTRA CO-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> • Worked as a market analyst at Startup Today (a crowdfunding startup) • Participated in several speaking events, including MUNs, debates and extempores • A newbie FOSS contributor, familiar with working on large codebases (like Mozilla) • Written many blogs, including Web Development blogs for <i>Web and Coding Club</i> • Active user on Sphere Online Judge (SPOJ), HackerRank and Stack Overflow • Completed the year-long course by National Sports Organization (NSO) in Squash • Enthusiastic in swimming and water adventure sports like Scuba • Worked as an organiser in Mood Indigo 2012, TechFest 2013 and E-Summit 2013
KEY COURSES UNDERTAKEN	Core: Data Structures, Abstractions and Paradigms in Programming, Software Systems*, Design and Analysis of Algorithms*, Logic Design*, Computer Programming and Utilization, Discrete Mathematics, Introduction to Machine Learning, Human Computer Interactive Design Other: Calculus, Linear Algebra, Differential Equations, Numerical Analysis*, Modern Physics, Environmental Studies, Economics, Basics of Electronics and Electrical Engineering, Chemistry, Basics of Visual Communications, Data Analysis and Interpretation Online Courses: Algorithms: Part I and Part II (Prof. Robert Sedgewick and Prof. Kevin Wayne), Learn to Program: The Fundamentals (Prof. Jennifer Campbell and Prof. Paul Gries), Machine Learning (Prof. Andrew Ng) Note: The * marked courses will be completed by April 2014.