



Prateek Chandan
Computer Science & Engineering
Indian Institute of Technology Bombay

120050042
UG Third Year (B.Tech.)
Male
DOB: 15-03-1995

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2015	8.67
Intermediate/+2	CBSE	DPS Bokaro	2012	95.80
Matriculation	CBSE	Sainik School Tilaiya	2010	9.60

ACADEMIC ACHIEVEMENTS

- Secured an All India Rank of **358** in **IITJEE 2012** among **5 lakh** aspirants
- Awarded **KVPY 2010-11** fellowship and attended the prestigious **Vijyoshi Camp 2011** at **IISc, Bangalore** and **Summer Camp** at **IISER, Pune** organized by **KVPY**
- Qualified **RMO-2011** : Regional Level Mathematics Olympiad sponsored by NBHM , Dept. of Atomic Energy , Govt. of India
- All India Rank **15** in National Cyber Olympiad , **21** in National Mathematical Olympiad and **51** in National Science Olympiad Conducted by Science Olympiad Foundation
- Secured **3rd** Position in Codestruck , National Coding Competition conducted by Techfest,IITB
- Qualified for **ACM-ICPC 2013** Onsite round at Amritapuri site

WORK EXPERIENCE

Software Developer, Shezartech

Summer'14

- Implemented a web based JEE Practice Engine with **ranking system** of student by **detecting difficulty** of problems
- Implemented a web based **Learning Management System**

Technical Director & Developer, Infermap

Nov'13-Present

- Working as **Lead developer** and **Technical Director** at Infermap, web based education start-up launched in 2014 by IITB

Web Manager, Students' Technical Activities Body IIT Bombay

Apr'14-Present

- Developing and Managing the Website of STAB IIT Bombay with other web apps

TECHNICAL ACHIEVEMENTS

- Awarded **Tech Freshman Of The Year 2012-2013** among the **880** freshmen for being the most Outstanding fresher
- Built an Autonomous line follower, RC Soccer Playing Bot, RC Bot in institute competitions and secured **1st, 2nd and 3rd** respectively in year 2012

PROJECTS

Extracting SQL Queries from Natural Language

Ongoing

Guide: **Dr. Pushpak Bhattacharyya**

- Working on various aspects of **Natural Language Processing** to extract SQL Queries from the natural language

Voice Controlled Bot and Biped

Summer'13

Institute Technical Summer Project

- Implemented **Hidden Markov Model** for the voice processing module. Coded in MATLAB involved algorithms like **Viterbi** and **Forward-backward algorithm**
- Built a self-designed **Remote controlled car** and a **Biped Bot** to work from voice commands

C++ to Scheme Code Converter

Mar'13-Apr'13

Guide: **Prof Amitabh Sanyal**

- Implemented **conversion** of basic C++ code into same functioning scheme code including few of the basic c++ libraries like **math** , **string** , **stdlib** etc

Sudoku Problem Generator and Solver

Oct'12-Nov'12

Guide: **Prof. Abhiram Ranade**

- Built a C++ based sudoku problem generator with varying difficulty levels
- The program solves all type of sudoku puzzles with **self-developed algorithm** using sets and probability with a nice UI

Cheetah Simulator in Box2D

Mar'14-Apr'14

Guide: **Prof. Parag Chaudhuri**

- Simulated the motion of cheetah on **Box2D**, Physics simulation engine based on OpenGL
- Implemented **Theo Jansen Walking mechanism** for the walking of cheetah
- Used tools like gprof, gnuplot to analyze the behaviour of the code and optimize its performance

TECHNICAL SKILLS

- Skilled in **C,C++**, **MIT-Scheme** with concepts of object-oriented programming and functional programming
- Skilled in Web Development and Scripting using **PHP**, **JQuery**, **HTML5**, **CSS3**, **AJAX**, **MySQL** **Web APIs** and other framework like **Laravel(PHP-based MVC Framework)**, **Twitter Bootstrap**
- Familiar with VHDL, Assembly Programming, BASH, MATLAB, L^AT_EX, Prolog and Python

POSITIONS OF RESPONSIBILITY

- Working as **Web Manager**, Students' Technnical Activity Body IIT Bombay
- **Convener of Web and Coding Club**, assisted the club manager in conducting workshops to promote coding culture and introduce latest technology among the students.
- Worked as **Cordinator** and **Organizers** in college festivals Mood Indigo and Techfest

MAJOR COURSES UNDERTAKEN

- **Computer Science**
Data Structures and Algorithms, Abstractions and Paradigms in Programming, Automata Theory and Logic, Logic Design, Software Systems Lab, Graph Theory, Computer Architecture*, Computer Networks*, Database and Information Systems*, Natural Language Processing*, Computer Graphics*, Compilers**, Operating System**, Artificial Intelligence**
- **Others**
Calculus, Linear Algebra, Differential Equations, Introduction to Numerical Analysis, Modern Physics, Technology and Animation, Economics

Note:

* to indicate courses which would be completed by Nov'14

** to indicate courses which would be completed by Apr'15

INTERESTS AND EXTRA CURRICULARS

- Participated in **Microsoft Appathon Code.Fun.Do** and built a add objects to canvas and write short code to animate them
- Participated in **Yahoo HackU** and built a chrome extension in 24 hour to gather news, sports and weather data using **Yahoo Boss API** Yahoo Query Language
- Awarded the **1st Kyu (Brown Belt)** in Karate by Shito Ryu Karate-Do Federation
- Active user on online coding forums like HackerRank and SPOJ
- Interested in Web Development , Apps and designing algorithms for various coding problems
- Worked for Abhyasika **as teacher** for poor kids in National Service Scheme , IITB
- Interested in traveling and have done Parasailing, Trekking, River Rafting, Valley crossing and other activities.