



Gaurav Jain
Computer Science & Engineering
Indian Institute of Technology Bombay

140020104
UG Second Year (B.Tech.)
Male
DOB: 11/04/1995

Examination	University	Institute	Year	CPI/ %
Graduation	IIT Bombay	IIT Bombay	2015	9.58
Intermediate/+2	CBSE	Jawahar Vidya Mandir	2014	94.8%
Matriculation	ICSE	St. Anthony's School	2012	96.57%

HOME PAGE: www.cse.iitb.ac.in/~gauravjain

SCHOLASTIC ACHIEVEMENTS

- ◇ Secured **All India Rank 1225** in **JEE-Advanced '14** among 150,000 candidates
- ◇ Secured **99.89** percentile in **JEE-Mains '14** among 1,400,000 candidates
- ◇ Received **Kishore Vaigyanik Protsahan Yojna (KVPY) 2013** scholarship from the Department of Science and Technology, Govt. of India
- ◇ Secured **All India Rank 3** in the **Special Class Railway Apprentice (SCRA)** Examination held by UPSC, Govt. of India
- ◇ Ranked amongst **top 1%** from state in **National Standard Examination in Physics (NSEP)'14**
- ◇ Ranked **1st** in the Chemical Engineering Department at the end of 1st year and **only student** from the department to be awarded a change of branch to Computer Science & Engineering

PROJECTS

Department Website Revamping

Oct '15-Present

Guide: Prof. P. Sunthar, Chemical Engg Department

IIT Bombay

- ◇ Part of 9 member team responsible for designing a common website template for all departments/centres across the institute
- ◇ Developed an **Apache Solr** based search with prediction enabled on all institute websites

Branch Change Webapp

Oct '15

Guide: Prof. Sharat Chandran, CSE Department

IIT Bombay

- ◇ Designed a webapp using **Django** framework in Python to automate the process of branch change for interested students
- ◇ Designed a UI where students can enter and modify their preferences
- ◇ Algorithm allots the branches to students based on their performance index and branch strength constraints

Gate Opener

Oct '15

Guide: Prof. Sharat Chandran, CSE Department

IIT Bombay

- ◇ Designed and simulated a **Rube Goldberg Machine** in 2D using **Box2D**, a physics simulation engine in C++
- ◇ Passage of vehicle through the machine triggers a series of changes causing the gate to open for specific velocities of the vehicle
- ◇ Simulated the models of Newton's cradle, mass-spring system, pulley-mass system

DotGame

Nov '14

Guide: Prof. Supratik Chakraborty, CSE Department

IIT Bombay

- ◇ Led a 3-member team which developed a **responsive graphical interface** for the classical dots boxes game with both single and double player modes
- ◇ Used the **Fast Light Toolkit (FLTK)** library in C++ for providing graphics

INTERNSHIP

DealWithUs

Afflatus Creative Solutions Pvt Ltd

Sept '14 - Apr '15

Mumbai

- ◇ **Automated** the process of cashback distribution to customers using **Mechanize** and **MySQLdb** modules in Python
- ◇ **Revamped the database** and implemented it using the **Codeigniter framework** in PHP
- ◇ Contributed to a **900%** increase in the customer base during the tenure

TECHNICAL SKILLS / INTERESTS

- ◇ **Programming Skills:** C++, Python, Java, Bash
- ◇ **Web Development:** HTML, CSS, PHP, Javascript
- ◇ **Database:** MySQL
- ◇ **Softwares:** LaTeX, Inkscape, AutoCAD, Adobe Photoshop, GNUplot
- ◇ **Areas of Interest:** Data Analysis, Algorithms, Combinatorics

POSITION OF RESPONSIBILITY

Academic Coordinator | Student Support Services

Apr '15 - Present

Institute Academic Affairs Council, IIT Bombay

- ◇ Part of 15 member council responsible for guiding and resolving **academic queries** of undergraduate students
- ◇ Organized various tutorial sessions in vernacular languages as part of the **Tutorial Service Centre** to help students with their academics and initiated an **online portal** for the same
- ◇ Revitalized **Course Rank & UG Acads Wiki** portal facilitating students to make informed academic choices

COURSES UNDERTAKEN

- ◇ **Computer Science:**
Computer Programming and Utilization, Data Structures and Algorithms*, Software Systems*, Abstractions and Paradigms in Programming Language**, Digital Logic Design**, Design and Analysis of Algorithms**, Logic for Computer Science**, Computer Networks**
- ◇ **Mathematics and Statistics:**
Data Analysis and Interpretation*, Discrete Structures*, Calculus, Linear Algebra, Ordinary Differential Equations
- ◇ **Others:**
Economics*, Introduction to Electrical and Electronic Circuits*, Quantum Physics and Applications, Engineering Graphics and Drawing, Electricity and Magnetism, Chemistry, Biology

(*to be completed by Dec'15)

(**to be completed by Apr'16)

EXTRA CURRICULAR ACTIVITIES

- ◇ Worked as a member of the **National Service Scheme (NSS)**, participating in institute-wide Cloth Collection Campaign and the Buddy Programme
- ◇ Worked as an organizer in Mood Indigo'14
- ◇ Awarded **45+** subject-wise academic excellence awards during high school
- ◇ Winner of **state level Quiz Competition** amongst students from 15 schools during high school