TUSHAR SHRIVASTAVA   110040039
Civil Engineering   **UG Third Year**
Indian Institute of Technology, Bombay   **Male**
DOB: 02-06-1993   **Graduation Year: 2015**
Degree: Bachelor of Technology

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank of **1224** in IIT Joint Entrance Examination 2011 (**top 0.2%** out of **4,85,000**)
- Secured 91.8% marks in Matriculation
- Secured 89.8% marks in Intermediate/+2
- Secured 10th rank in Insight National Talent Hunt, organized by Insight Institute, Kota.
- Secured 99 percentile in National Level Science Talent Search Examination (NSTSE-2009).
- Secured 96 percentile in International Mathematics Olympiad (IMO-2009).
- Secured 97 percentile in National Science Olympiad (NSO-2009).

PROJECTS

C++ Project (Guide: Prof.D.B.Phatak):   (2011-2012)
- Created a Hospital Database Management System in C++ which was a GUI using EzWindows
- Used UID concept and authentication system in project development

RF Circuit powered vehicle: (2011-2012)
- Designed a wireless, RF Circuit powered vehicle under the programme **Techone.**
- The objective was to complete a track, with several mechanical obstacles, in minimum amount of time

Line Follower Bot :   (2011-2012)
- Designed a line follower bot using IR-sensor and LED.
- The task was to follow a white track in minimum time.

Low Drift Integrator Circuit : (Guide: Prof. S. D. Gupta) :   (2012-2013)
- Made a low drift integrator successfully using various electronic items.

RELEVANT COURSES

- **Core Courses**:
    - Solid Mechanics, Fluid Mechanics, Engineering Mechanics, Numerical Methods In Civil Engineering, Structure of Materials, Geodesy, Hydraulics Engineering
- **Lab Courses:**
    - Fluid Mechanics Lab, Heavy Structure Lab, Physics, Chemistry, Workshop Practice, Engineering Drawing, Computer Programming Lab, Geodesy Lab, Experimental and Measurement Laboratory, Hydraulic Design Lab
- **Other Courses:**
    - Computer Programming and Utilization , Introduction to Electrical and Electronics Circuit, Electricity & Magnetism, Data Analysis and Interpretation, Chemistry, Economics, Calculus, Linear Algebra, Ordinary and Partial Differential Equations, Environmental Studies: Science and Engineering

TECHNICAL SKILLS

- **Programming Languages/Tools**: C/C++ , HTML, Java, CSS, JavaScript, AJAX, Jquery, PHP, Ruby, backbone.js, Python
- **Frameworks**: Ruby-on-Rails, Yii(PHP)
- **Operating Systems**: Microsoft Windows, Ubuntu (Linux)
- **Application Software**: Microsoft Office, Adobe Photoshop, MySQL, Adobe Flash, Adobe Dreamweaver, Eclipse, Matlab, Scilab.

INTERNSHIPS

- **Web Developer Internship at Housing in Summers 2013**:
    1. Worked on Ruby-on-Rails framework with front end integrated with backbone.js.
    2. Also worked on mobile website on the same framework.
    3. Worked on various Google Maps features such as overlays, clustering and spiderfication.
    4. Worked with Spatial Database(POSTGIS) with Ruby-on-Rails.

- **Web Developer Internship at Motideals.com in Winter 2012-2013**:
    5. The role was to handle the entire backend along with parts of front end. Also at the end of the internship period an entire new interface along with a new website was developed.
- **Web Developer In-Semester Internship at trysmartsample.com**:
    1. The role was to maintain the website www.trysmartsample.com which is made on Zen-Cart framework.
    2. An android application was also made which takes user information and redirects the user to the website of trysmartsample.com.

POSITIONS OF RESPONSIBILTY

- **Core-Team Member, Student Alumni Relations Cell**   (2013-2014)
    - Handling 6 web interfaces designed in Yii framework(PHP) and using advanced features like JQuery, Ajax and backbone.js
    - Handling various events and initiatives to enhance the student-alumni relations and activities directly under DEAN Alumni and Corporate Relations, IIT Bombay.
- **Web Secretary, Hostel 7, IIT Bombay**   (2012-2013)
    - Administrator of the Hostel Website.
    - Designed various webpages for the Hostel such as Hostel Sports Page, Cult Page.
- **Department Web Nominee, Civil Engineering Association, IIT Bombay**   (2013)
    - Administrator of the Civil Engineering Association website.

WEB WORK

Websites made:

- **www.sarc-iitb.org** – The main website of Student Alumni Relations Cell, IIT Bombay. Developed using HTML5, CSS3, Ajax, JQuery, PHP, MySQL, backbone.js
- **phonathon.sarc-iitb.org** – This was developed to cater the event of Phonathon where students of IIT Bombay come forward to contact thousands of alumni across the globe. This interface, holding the records of students and alumni, is used to conduct the event.
- **www.motideals.com** – This is a dynamic website which was made during winter internship. It was made using PHP, HTML, CSS, Javacript, Jquery and AJAX.
- **gymkhana.iitb.ac.in/~hostel7/7up_main** – This website was made as the hostel Cultural page using Web tools like HTML5, CSS3, Javascript.

EXTRA CURRICULAR ACTIVITIES

- Was part of the **National Sports Organization** for Weightlifting.   *(2011-12)*
- **Captain** of the **School Table Tennis team** which won district level tournaments twice.   (2009 and 2010).
- **Captain** of the **District Table Tennis team** which participated in **State level** (Rajasthan) **table tennis** competition and stood 5th.   (2010)
- Was a part of IIT-B group which made a world record of maximum number of people solving Rubik's cube together.   (2011-2012)