
Aayush Singhal

+91-9867-107589
Hostel 6, Room 284
IIT Bombay, Powai
Email: aayushsinghal@iitb.ac.in

<http://www.cse.iitb.ac.in/~aayush>

Mumbai, India, 400076

EDUCATION

Indian Institute of Technology, Bombay, Mumbai INDIA

B.Tech.(Honors)

July 2009 - Present

Department of Computer Science & Engineering

- CPI/GPA : 8.75(10)
- Advisor: Prof. Sridhar Iyer

WORK

EXPERIENCE

Facebook Inc. Palo Alto, California, USA (Internship) May–July, 2011(11 weeks)

Learnt about several teams, while working with some of them. Worked on Facebook's *php code base*, making use of many languages like *php*, *xhp*, *javascript* and using Facebook's database for developing my project

Facebook is a social utility that helps people communicate more effectively with their friends, family and co-workers.

TEACHING

Teaching Assistant

- CS 101 : Computer Programming & Utilization
Guide: Prof. Deepak B. Phatak July–Nov, 2010
- CS 213 & 293: Data Structures & Algorithms
Guide: Prof. Varsha Apte Aug, 2011 - present

ACADEMIC

ACHIEVEMENT

- Represented India at **20th International Olympiad in Informatics (IOI)**, held in Cairo, Egypt. 2008
- Secured **AIR 75** in **IIT-JEE** among 3.8 Lakh students 2009
- Awarded an **AP grade** along with **highest marks** in course CS 101 (Computer Programming & Utilization) among 800 students from IIT Bombay.

SEMESTER

PROJECTS

UID Finger Print Technology in IIT Bombay

IIT Bombay, 1st semester, C++, Guide: Prof. Deepak B. Phatak Sep–Nov 2009

Group project for assigning and recognizing people using their finger Prints. We worked in a team of 80 students subdivided into small groups, worked on creating, storing & manipulating finger print and other information of people, registering, recognizing people using their finger prints by matching of finger prints using minutiae detection, image processing & pattern matching techniques.

Data Compression of Text Files

IIT Bombay, 2nd semester, Lisp, Guide: Prof. Amitabha Sanyal Feb–Apr 2010

Project for compressing text files & decompressing compressed files, so as to store more data within less memory implemented by making use of LZW compression techniques within LISP programming environment, providing high data compression ratios.

File Indexing and Searching

IIT Bombay, 3rd semester, C++, Guide: Prof. Om. P. Damani

Oct-Nov 2010

Searches for files on desktop, by indexing files present inside computer, providing ability to manually choosing folders and files for indexing and easily extendable to project for sharing and searching files on local area network by indexing files on all computers present under a hub.

POSITION OF RESPONSIBILITY

- Mentored students, under a non-profit organization **Avanti**, which finds extraordinary students with low means, and helps them by guiding so as to enhance their overall personality and provide better education. *July 10-Apr 2011*
- Organized **NEXUS**, Techfest 2010-11 for *Central India Region*, organized in Medicaps Institute, Indore, which requires participating teams to design an automated robot, required to find a predefined pattern on a maze. *Aug, Sep 2010*

EXTRA-CURRICULAR ACTIVITIES

- Awarded *Hostel Technical Colour 2010-11* for excellence in technical activities. Secured 2nd position in Inter Hostel Programming contest organized by Technic.
- Worked as *Organizer* and *Coordinator* in Technical and Cultural festivals of IIT Bombay, also known as *Techfest* and *Mood Indigo*, during my 1st and 2nd year of IIT education. Organized and designed Problem statements for **Microsoft Coding Arena**, in Techfest 2011. *2009-2011*
- Took Part in NSS (*National Service Scheme*) in IIT Bombay, for personality development while helping people with low means. *2009-2010*

CAMPS & COURSES

Attended 15 days long *International Olympiad in Informatics Training Camp, India* held at The International School, Bangalore (TISB). *June 2008*

- Taught by respected Professors, *Prof. Madhavan Mukund & Prof. K. Narayan*, CMI (*Chennai Mathematical Institute*) about applications of data structures, algorithm design and graph theory.

PROGRAMMING SKILLS

Good with
C++, MIT Scheme (LISP), php, Oracle, MySQL

Worked with
JavaScript, Java, xhp,