# Apurva Singh

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## Areas of Interest: Data Mining, Web Development, Digital Image Processing, Machine Learning.

## Education:

*All India Secondary School Examination (2011)* 9.2/10 CGPA
*All India Senior Secondary Certificate Examination (2013)* 92.8%
*B. Tech. Computer Science and Engineering at LNMIIT, Jaipur (2013-Present)* 7.57 CPI (December 2015)

## Experience:

***Teaching Assistant for IT Workshop Lab*** (Jan 2016 –Present), LNMIIT (Jaipur)

***Teaching Assistant for Computer Programming Lab*** (August 2015 –November 2015), LNMIIT (Jaipur)

***Chairperson*** (April 2015 –Present), IEEE-WIE, LNMIIT (Jaipur)

***Associate Team Coordinator*** (April 2015 –Present), CSI Student Chapter, LNMIIT (Jaipur)

***Vice Chairperson*** (April 2014 –March 2015), IEEE-WIE LNMIIT (Jaipur)

***Secretary*** (October 2013 –March 2014), IEEE-WIE, LNMIIT (Jaipur)

## Skills:

***Languages:*** C, C++, Java, Python, R, SQL.
***Web Technologies:*** HTML5, CSS3, PHP, JavaScript, jQuery, Bootstrap.
***Platforms:*** Linux, Fedora, Windows, MAC.
***Software:*** MATLAB, Eclipse, DB2, NetBeans.

## Publications:

***A LOSSLESS COLOR IMAGE STEGANOGRAPHY SCHEME FOR SECURE MESSGE TRANSMISSION*** (Accepted) (May 2014)
Springer, 23rd INTERNATIONAL CONFERENCE ON SYSTEMS ENGINEERING, ICSEng 2014
Las Vegas, NV, USA.

***A MASK BASED APPROACH FOR LOSSLESS IMAGE STEGANOGRAPHY*** (Published)
(September 2015)
AMCIS 2015, Puerto Rico.

## Internships:

***Summer Intern at DA-IICT*** (May 2014 – July 2014)
Text to Speech Signal Processing.
***Summer Intern at FilterLady.com*** (May 2015 – September 2015)
Website Development for Lahoty Associates.

## Projects:

***Website for Lahoty Associates*** (Summer Intern Project)
During my Summer Intern at FilterLady.com I made a website for Lahoty Associates a Kota based Architect Firm. **URL:** lahotyassociates.com

**Smart Word Cloud using R** (Winter Intern Project)

Using data-mining, word stemming, tf-idf matrices we are working on building an algorithm in R which generates the word-cloud of words that come together often.

**USS Based Text to Speech System** (Summer Intern Project)

During the period of May-July 2014 I had completed an Intern under Dr. Hemant Patil (DA-IICT) and worked in the field of Test to Speech Processing. In this project the input is text and the computer converts the given text into speech in any language and the text can be anything which is the main aim to make the voice sound human. The practical applications include voice commands for blind people which help them navigate through the computer. **Link:** Intern Presentation

**16-bit Two Pass Assembler** (February 2015 – March 2015)

Developed a 16-bit Instruction Set Architecture aimed at basic mathematical computation of logical operations. Assembler works in two passes. In first pass op-code table is generated whereas in second pass assembly code is converted into corresponding machine code. GitHub Link

**Social Networking Site for LNMIIT** (March 2015)

A Social Networking Site for College using Java Server Pages and IBM DB2 as a project for DBMS and OOP courses. GitHub Link

**CPU Scheduler** (August 2015 – October 2015)

As part of course project for Operating Systems we developed a CPU Scheduler which on the basis of different processes and inputs given calculates the Average-Turnaround Time and Average-Waiting Time for different algorithms like FCFS, RR, and Multi-Level Feedback Queue. We used Java and MATLAB for the same. The code can be found here at Github.

**Placement Cell App** (August 2015 – October 2015)

As part of my SEPM Course of 5th Semester I made an Android App for the Placement Cell of our college. The app had different options of Registering a Student, Notifications for upcoming placement activities. The code can be found here at Github.

## Workshops and Certifications:

Participated in **Workshop on Machine Learning, Central University of Rajasthan.**
Participated in **ACM-ICPC 2014.**
**Ethical Hacking Workshop**, LNMIIT, Jaipur.
**TechVista 2014** by Microsoft Research.
**Workshop on Cloud Computing** by GRRAS Solutions Pvt. Ltd.
**Workshop on Text-to-Speech (TTS) Synthesis**, DA-IICT. (June 2014)
**Big Data Workshop** by Mr. Arun Buduri at LNMIIT, Jaipur.
**Web Application Architectures**, Coursera

## Recommendations:

Available on Request.