

# GAURAV KUMAR SINGH

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## OBJECTIVE

Seeking an opportunity for undergoing Summer Research Internship that offers excellent learning and research opportunities in the field of my interests that utilizes my potential and skills efficiently to achieve the best.

## EDUCATIONAL QUALIFICATIONS

Year	Degree/Certificate	Institute/School	CGPA / %
2015	B. Tech (Computer Science Engineering)	The LNMIIT (6 <sup>th</sup> Semester)	8.20/10
2011	AISSE	LPS Lucknow	87.40%
2009	AISSE	LPS Lucknow	89.60%

## RESEARCH INTERESTS

- Data Structures and Algorithm Analysis
- Image Processing
- Network Security
- Operating Systems
- Data Mining
- Distributed Computing

## SUMMER INTERNSHIP

- **Teramatrix Technologies (2014) : QoS & QoE of Networks**

Advisor: Mr. Peeyush Raj  
Duration: May 2014 – July 2014  
Purpose: Development of open source software for accomplishing QoS and QoE of a network.

- **CMC Pvt Ltd (2013) : Social Networking based Chat Messenger**

Advisor: Mr. Purushotam Sinha  
Duration: May 2013 – July 2013  
Purpose: Developed a social online networking website for instant messaging/chatting. Tested and implemented on real time servers.

## KEY ACADEMIC PROJECTS

- **Image Processing API development for counterfeit document detection**

Advisor: Dr. Mukesh Jadon  
Duration: October 2013 – November 2013  
Purpose: Developed an API in JAVA for function like UNCC, GLCM, Energy etc of an image. Using these tools development of a software which differentiates between a fake and real document.

- **Twitter imitation on local server.**

Advisor: Dr. Subrat Dash  
Duration: March 2013 – April 2013  
Purpose: Twitter based website. Implementing basic key features of [www.twitter.com](http://www.twitter.com) . Implemented and tested on local server of the institute.

- **Online Polling System for LNMIIT Gymkhana elections**

Advisor: Dr. R. P. Gorthi  
Duration: January 2014 to present.  
Purpose: Developing professional software for real time usage in election held in The LNMIIT. The software is being using software engineering etiquettes.

- **Network security analysis**

Advisor: Mr. Gaurav Somani  
Duration: March 2013 – April 2013  
Purpose: Cyber security and breach analysis of systems using BackTrack in Operation Systems

- **Restoration of high noisy images using adaptive filtering and comparing the result with existing methods**

Advisor: Dr. Pretty Singh and Ms. Sonam Nahar  
Duration: October 2013 – November 2013  
Purpose: Implemented a research paper which uses adaptive filtering of video images and comparing the results with traditional filters such as median filters.

- **2 pass compiler which reads an assembly code and converts it to the machine level code**

Advisor: Dr. Pretty Singh

Duration: October 2012 – November 2012

Purpose: A 16 – bit assembly instruction model which converts an arbitrary code to its corresponding machine code.

## COMPUTER SKILLS

Languages : C, C++, JAVA, Visual Basic, Shell Scripting, HTML, CSS, PHP, MySQL, JavaScript, LaTeX  
 Operating Systems: Ubuntu, Windows  
 Other Tools: MATLAB, Microsoft Office, Eclipse

## Semester wise Performance Index (SPI/CPI)

Semester	Semester Performance Index(SPI)	Cumulative Performance Index(CPI)
1 <sup>st</sup>	8.00	8.00
2 <sup>st</sup>	7.05	7.56
3 <sup>st</sup>	8.56	7.88
4 <sup>st</sup>	8.10	7.93
5 <sup>st</sup>	9.20	8.17
6 <sup>st</sup>	8.36	8.20

## IMPORTANT COURSES UNDERTAKEN (TILL 6<sup>TH</sup> SEMESTER)

### Computer Science:

C Programming, IT Workshop, Data Structures and Algorithms, Computer Organization and Architecture, Database Management Systems, Operating Systems, Design and Analysis of Algorithms, OOPS Using Java, Digital Image Processing, Theory of Computation, Software Engineering, Biomedical Engineering, Computer Networks.

### Electronics:

Basic Electronic Devices and Circuits, Digital Circuits Systems.

## EXTRA CURRICULAR ACHIEVEMENTS

- Honorable mention in **ACM ICPC Kanpur Regional 2013**.
- 1<sup>st</sup> in **Intra University Programming Contest(IUPC)** in September 2013
- 1<sup>st</sup> in **Intra University Programming Contest(IUPC)** in October 2013
- Teachers Assistant in **Data Structures and C Programming Lab**
- Coding in CodeChef(Handle: garry27)
- Ranked 388 in 12<sup>th</sup> National Science Olympiad.
- Awarded scholarship prize in academic year 2008-2009
- Technical Organizer of National level Inter University Programming Contest in Vivacity 2013 hosted on Hacker Earth.
- Active Member of Cybros(CSE@LNMIIT) for academic year 2012-2013.

I hereby declared that the information given above is correct to the best of my knowledge.

Gaurav Kumar Singh  
 (6<sup>th</sup> June 2014)