

Interests	Usable Privacy and Security, Information security, Human-Computer Interaction	
Education	Master of Mathematics, Computer Science University of Waterloo, Waterloo, Canada	Sept '14 – Present
	Bachelor of Technology, Information and Communication Technology Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India	Jul '09 - May '13 CGPA: 8.55/10
Work Experience	Research Associate, TIFAC, India Conducted a research study to analyze security threats of popular instant messaging services. Also worked on ensuring network security in the organization using intrusion detection systems to prevent any unauthorized access.	Sep '13 - July '14
Research Experience	Developing a selective ad-blocking tool <i>Mentor: Dr. Saurabh Panjwani, Bell Labs Research, India</i> Conducted a research study to address the concerns of Indian web users towards the content of on-line advertisements. The user perception of online ads was investigated through a user study which was then followed by developing a selective ad-blocking browser plugin.	Winter '13
	Analysis of a password-recovery attack against APOP <i>Mentor: Prof. Anish Mathuria, DA-IICT, India</i> Understood and analyzed a password recovery attack against Authenticated Post office protocol (APOP). The research involved investigating the working of MD-5, the Wang's attack and the conditions needed for such an attack to occur.	Summer '12
	MILLEE (Mobile and Immersive Learning for literacy in Emerging Economies) <i>Mentor: Prof. Matthew Kam, CMU, USA</i> My role in the team was to play-test the language learning mobile games being developed. It involved conducting alpha and beta tests on these games to find out any potential bugs, design flaw and submitting formal reports so that they could be fixed.	May '10 – Dec '10
Teaching Experience	Teaching Assistant, University of Waterloo, Canada <i>Course: CS135- Designing Functional Programs</i>	Fall '14
	Teaching Assistant, DA-IICT, India <i>Course: IT205- Data Structures and Algorithms</i>	Fall '12
Selected Projects	Ad-Filter Firefox Plugin <i>Advisor: Dr. Saurabh Panjwani, Bell Labs Research, India</i> Developed a modified version of the popular Ad-block plus plugin which blocks only embarrassing and sensitive on-line advertisements in contrast to blocking all on-line ads.	Winter '13 <i>Team Size: 1</i>
	Ad-Extraction tool <i>Advisor: Dr. Saurabh Panjwani, Bell Labs Research, India</i> Developed a tool to identify the content of advertisements present in a given list of webpages. The tool extracts information of both image and textual ads from a given list of webpages.	Winter '13 <i>Team Size: 1</i>

NGO Information Management Suite*Advisor: Prof. Asim Banerjee, DA-IICT, India*

Developed a web based information management system for an NGO for cataloguing their work, evaluating the NGO's performance and creating social maps of the population in which the NGO operates. I was responsible for developing the server side interface which involved coding in PHP and JavaScript.

Winter '12
Team Size: 9

Model for information and knowledge sharing in a network*Advisor: Prof. Sanjay Srivastava, DA-IICT, India*

Proposed a network model which would facilitate sharing of relevant information across communities to appropriate users in a cost-effective manner. The model facilitated socialization among like-minded individuals across a network.

Winter '12
Team Size: 1

P2P File transfer system*Advisor: Prof. Sanjay Chaudhary, DA-IICT, India*

Implemented a client-server system which allowed file sharing between clients in a network. The project was implemented in C and the concepts of socket programming and shared memory were used.

Winter '11
Team Size: 2

Analyzing a localization algorithm for wireless sensor networks*Advisor: Prof. Sanjay Srivastava, DA-IICT, India*

Understood and analyzed a novel localization algorithm called APIT (Approximate Point-in-Triangulation Test). A thorough analysis of the algorithm including understanding the limitations, simulation of the algorithm in Matlab was done.

Winter '12
Team Size: 1

Publications	<p>Do Not Embarrass: Re-Examining User Concerns for Online Tracking and Advertising, ACM Symposium on Usable Privacy and Security (SOUPS), 2013</p> <p>Lalit Agarwal, Nisheeth Shrivastava, Sharad Jaiswal, Saurabh Panjwani, Bell Labs Research, Bangalore, India</p>
Relevant Coursework	Data Structures, Operating System, Introduction to Algorithms, Introduction to Cryptography, Sensor Network Systems, Introduction to Graph theory, System and Network Security, Security Protocols, Network Protocols, Digital Signal Processing, Computer Networks, System Software, Software Engineering, Introduction to Artificial Intelligence.
Past Activities	<p>Treasurer, Electronic Hobby Centre, DA-IICT</p> <p>Resource Manager, Electronic Hobby Centre, DA-IICT</p> <p>Coordinator, Youth Run, Synapse'11, Techno-Cultural festival, DA-IICT</p>
Awards and Achievements	<p>Mathematics Graduate Experience Award, University of Waterloo, Fall '14</p> <p>Successfully completed Stanford University's course "Introduction to Cryptography" on Coursera. Ranked among the top 1% students all over India (total 1,000,000 students) in AIEEE-2009 and IIT-JEE-2009.</p>
Technical Skills	<p><i>Languages:</i> C, C++, Java, PHP, JavaScript</p> <p><i>Tools:</i> Matlab, ns2, Selenium webdriver, HTML Labview, PostgreSQL, MySQL</p>

Lalit Agarwal

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