

Interests	Human-Computer Interaction, Usable Privacy	
Technical Skills	<i>Languages:</i> Java, C++, PHP, JavaScript <i>Tools:</i> Android Studio, Matlab, Selenium web-driver, HTML, Labview, MySQL	
Education	Master of Mathematics, Computer Science University of Waterloo, Waterloo, Canada	Sept '14 – Present CGPA: 88.20/100
	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
Research Experience	Designing new authentication interfaces for Android <i>Mentor: Prof. Urs Hengartner, University of Waterloo, Canada</i>	May '15 - Present
	I am currently working on designing new interfaces for re-authenticating users on smartphones. The lock library will allow the Android developers to re-authenticate the users using their app.	
	Developing a selective ad-blocking tool <i>Mentor: Dr. Saurabh Panjwani, Bell Labs Research, India</i>	Winter '13
	MILLEE (Mobile and Immersive Learning for literacy in Emerging Economies) <i>Mentor: Prof. Matthew Kam, CMU, USA</i>	May '10 – Dec '10
	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.	
Work Experience	Research Associate (Part-time), Technology Information, Forecasting and Assessment Council (TIFAC), India <i>Mentor: Dr. Prabhat Ranjan, Executive Director, TIFAC, India</i>	Sep '13 - June '14
I worked on developing web-applications for use within the organization. I was also involved in maintaining organization's network performance by performing network monitoring and analysis, conducting security analysis of a few third-party applications being used in the organization.		
Teaching Experience	Teaching Assistant, University of Waterloo, Canada <i>Course: CS234- Data Types and Structures, Spring '15</i> <i>Course: CS136- Elementary Algorithm Design and Data Abstraction, Winter '15</i> <i>Course: CS135- Designing Functional Programs, Fall '14</i> <i>Course: CS458- Computer Security and Privacy, Winter '16, Spring '16</i>	
Selected Projects	Cloud Price Estimation Tool <i>Advisor: Prof. Bernard Wong, University of Waterloo, Canada</i>	Winter '15 Team Size: 3
A utility tool which allows users to estimate the best pricing plan available for running their application on the cloud depending on the resource requirements of the application.		

Crowd-sourcing system for multi-lingual plagiarism detection*Advisor: Prof. Edith Law, University of Waterloo, Canada*

Fall '14

Team Size: 2

Developed a crowdsourcing system to overcome the limitations of machine translation by allowing users to identify plagiarized documents across languages. I was involved in developing the front-end interface of the platform using PHP, JavaScript and MySQL.

Ad-Filter Firefox Plugin*Advisor: Dr. Saurabh Panjwani, Bell Labs Research, India*

Winter '13

Team Size: 1

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.

Ad-Extraction tool*Advisor: Dr. Saurabh Panjwani, Bell Labs Research, India*

Winter '13

Team Size: 1

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.

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 involved in developing the server side interface which involved coding in PHP and JavaScript.

Winter '12

Team Size: 9

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

Winter '11

Team Size: 2

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.

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, India</p>
Relevant Coursework	Data Structures and Algorithms, Operating Systems, Introduction to Cryptography, Sensor Network Systems, Graph theory, System and Network Security, Network Protocols, Security Protocols, System Software, Software Engineering, Introduction to Artificial Intelligence, Human-in-the-Loop Systems, Cloud Computing and Software Defined Networking.
Past Activities	Graduate Student Ambassador, Computer Science Department, University of Waterloo Treasurer & Resource Manager, Electronic Hobby Centre, DA-IICT
Awards and Achievements	Mathematics Graduate Experience Award, University of Waterloo, Winter '15, Fall '14 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.

Lalit Agarwal

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