www.lalitagarwal.in

# LALIT AGARWAL

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## OBJECTIVE

Full-time: Software/web development starting Aug, 2016

## SUMMARY OF QUALIFICATIONS

- 6 years of experience in software development including project experience in application, web and mobile development.
- Proficient in programming in Java, PHP, SQL.
- Strong academic background in algorithms, data structures, cryptography, network security.
- Possess excellent verbal and written communication skills.
- Proficient in mathematics and eligible to work in Canada.

## TECHNICAL SKILLS

- **Programming Languages:** Java, C++
- **Web Development:** HTML, CSS, JavaScript, jQuery, PHP, SQL
- **Technologies**: Android Studio, Eclipse, Matlab, ns2, Selenium web-driver
- **Version Control Systems**: Git, SVN
- **Operating Systems**: Windows 7/8, Linux

## RELEVANT EXPERIENCE

**Graduate Research Assistant, University of Waterloo, Canada**                    **May/15 – Present**
- Currently working on designing re-authentication strategies for smartphones.
- Developing an Android lock-library for app-level pattern/pin lock configurations with varying transparencies.

**Research Associate, Technology Information, Forecasting and Assessment**
**Council (TIFAC), India**                                        **Sept/13 – Jun/14**
- Developed web-applications using PHP for use within the organization.
- Maintained network performance by network monitoring and analysis.

**Research Intern, Bell Labs Research, India**                           **Jan/13 – Apr/13**
- Conducted a research study to understand the concerns of Indian web users towards online advertising.
- Developed a selective ad-block plugin for Firefox browser using JavaScript to filter sensitive ads.

**Play-tester, MILLEE, CMU, USA**                                    **May/10 – Dec/10**
- Conducted alpha and beta tests for educational mobile games.
- Managed content required for the game including voiceovers, XMLs etc.

## TECHNICAL EXPERIENCE

**Projects**
- **Crowd-sourcing system for multi-lingual plagiarism detection-** Developed a web interface to allow users to identify plagiarized news articles across multiple languages using PHP, JavaScript and MySQL.
- **Ad Filter Browser Plugin**- Developed a modified version of the popular AdBlock plus browser plugin for Firefox using JavaScript, which blocks online ads containing sensitive content.
- **Ad-Extractor Tool**- Implemented a Java tool to extract and identify the content of textual and image-based online ads present on a given list of web-pages using Selenium web-driver.
- **NGO Information management Suite**- Collaborated on building a web-based information management system for an NGO for cataloguing their work, evaluating the NGO and its employee's performance.
- **P2P File Transfer System-** Implemented a client-server implementation in C language which facilitates file sharing between clients of the same network.

## EDUCATION

**University of Waterloo, Canada**                                                                        **Sept/14 - Present**
- Candidate for Master of Mathematics, Computer Science.                          **CGPA: 88.20/100**
- Relevant Coursework: Introduction to Artificial Intelligence, Advanced Topics in HCI- Humans in the Loop Systems, Cloud Computing and Software Defined Networking.
  **Expected Graduation Date**- August, 2016

**Dhirubhai Ambani Institute of Information and Communication Technology**          **Jul/09 – May/13**
**(DA-IICT), India**                                                                                             **CGPA: 8.55/10**
- Bachelor of Technology, Information and Communication technology (ICT).
- Relevant Coursework: Data Structures and Algorithms, Introduction to Graph theory, Operating System, Database Management System, Introduction to Cryptography, System and Network Security, Security Protocols, Network Protocols, Sensor Network Systems.

## PUBLICATIONS

- Ask me again but don't annoy me: Evaluating Re-authentication strategies for smartphones, SOUPS 2016
  **Lalit Agarwal**, Hassan Khan, Urs Hengartner, University of Waterloo, Canada
- Do Not Embarrass: Re-Examining User Concerns for Online Tracking and Advertising, SOUPS 2013
  **Lalit Agarwal**, Nisheeth Shrivastava, Sharad Jaiswal, Saurabh Panjwani, Bell Labs Research, Bangalore, India

## PROFESSIONAL DEVELOPMENT

- Graduate Student Ambassador, Computer Science Department, University of Waterloo, Canada
- Teaching Assistant, Computer Security and Privacy, University of Waterloo, Canada
- Teaching Assistant, Algorithm Design and Data Abstraction, University of Waterloo, Canada
- Teaching Assistant, Designing Functional Programs, University of Waterloo, Canada