www.lalitagarwal.in

LALIT AGARWAL

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OBJECTIVE

Seeking a full-time opportunity in the areas of software/web development starting May, 2016

Technical Skills

- **Programming Languages:** Java, C++, PHP, SQL, JavaScript
- **Technologies**: Android Studio, Matlab, ns2, Selenium web-driver, Labview, MySQL

WORK EXPERIENCE

Graduate Research Assistant, University of Waterloo, Canada   Sept '13 – June' 14
- Currently working with Prof. Urs Hengartner on designing new interfaces for re-authenticating users using implicit authentication schemes on Android.
- Various schemes such as an app-level Pattern/PIN lock screen, taking a picture of the user etc. have been proposed.

Research Associate, Technology Information, Forecasting and Assessment
Council (TIFAC), India   Sept '13 – June' 14
- Worked on developing web-applications using PHP for use within the organization.
- Involved in maintaining network performance by network monitoring and analysis.

Research Intern, Bell Labs Research, India   Fall '13
- Conducted a research study to understand the concerns of Indian web users towards online advertising.
- Developed a selective ad-block plugin in JavaScript for Firefox browser to address the user concerns.

Play-tester, MILLEE, CMU, USA   Fall '12
- Conducted alpha and beta tests for mobile games developed and submitted testing reports
- Managed content required for the game including voiceovers, XMLs etc.

EDUCATION

University of Waterloo, Canada   Sept '14 - Present
- Master of Mathematics in 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- May, 2016

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

TECHNICAL EXPERIENCE

Projects
- **Crowd-sourcing system for multi-lingual plagiarism detection-** Developed the front-end interface of the platform using PHP, JavaScript and MySQL to allow users to identify plagiarized news articles across languages.
- **Ad Filter Browser Plugin**- Developed a modified version of the popular AdBlock plus browser plugin using JavaScript which blocks only sensitive online advertisements in contrast to blocking all online ads.
- **Ad-Extractor Tool**- A Java tool to extract and identify the content of both textual and graphical online

advertisements present on a given list of web-pages using selenium web-driver.

- **NGO Information management Suite**- 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.

PUBLICATION

- **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

CURRENT AND PAST ACTIVITIES

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