

## **SARAH J. ANDRABI**

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201 South Columbia St., Brooks Computer Science Building, FB341, Chapel Hill, NC 27599

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**Strongly motivated graduate student looking to innovate in Computer Science**

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### **EDUCATION**

**University of North Carolina**, Chapel Hill, NC

Masters of Computer Science, Expected, May 2015

Concentration: Security and Privacy

**National Institute of Technology Srinagar**, J&K, India

Bachelor of Technology, Gold Medalist, July 2013

Concentration: Information Technology, GPA: 9.607 (out of 10)

### **EXPERIENCE**

**Program Manager Summer Intern, Microsoft Corporation, Redmond**, *May 2014-August 2014*

Working in the Security Assurance team in the Operating Systems Group. Designed the backend and frontend functionality of a taint-tracking tool for code reviews and coded UI elements. Drove the work on enterprise manageability scenarios for an anti-malware product. Did competitive analysis for both the projects.

**Research Assistant, Department of Computer Science, UNC Chapel Hill**, *Fall 2013-Present*

Leveraging wearable technology for secret message exchange without having to completely trust the device. (2014)

Formal verification of memory protections during Guest initialization using XMHF Hypervisor. (2013)

**Senior Year Project, NIT Srinagar**, *Fall 2012-Spring 2013*

Used Region Growing and Fuzzy C-Means Clustering Algorithms to extract features from Breast Cancer patient's tissue samples, to aid in prognosis, using MATLAB.

**Intern, Hewlett-Packard Educational Services (HPES)**, *Noida, India, December 2011- March 2012*

Trained in .NET platform and developed a social-networking site using C#, ASP.NET, SQL Server and AJAX.

### **SKILLS**

Languages: C, C#, JAVA, VB.NET, C++, Python, MATLAB, HTML, CSS, JavaScript, SQL

Platforms: .NET, Android, Linux kernel development

### **PRESENTATIONS**

**"A Study of Channel Capture Effect in 802.11"**, Poster Presented at CRA-W grad cohort 2014, held on April 11-12, 2014 in Santa Clara, California

**"Security Challenges in Cloud Computing and SAML: A Study"**, International Conference on Telecommunications and Networks 2013 at Amity University, Noida, February 27-28, 2013.

**"Role of Women in Information and Communication Technology"**, World Telecom Day, May 17, 2012 held by the Institution of Engineers India (IEI) J&K State Center.

### **ACTIVITIES**

**Graduate Women in Computer Science (GWiCS)**, *Spring 2014*

Founding President GWiCS at UNC Chapel Hill as a platform of community building for female graduate students and providing mentorship to new incoming female graduate students.

**Third Prize, PearlHacks, 2013**

Part of team that won third prize at PearlHacks, 2013 held at UNC Chapel Hill. Developed an Android app to help people identify what sized clothing they need for different clothing brands based on their measurements and the sizing charts provided by different clothing brands.

**Vice-Chairperson, IEI, NIT Srinagar Student's Chapter**, *May 2012-April 2013*

Organized events regarding technology and engineering, including workshops, quizzes, case-studies, photography competitions etc. Also made a score keeping app using ASP.NET for one of the events.

**Microsoft Student Partner, Oct 2010-Oct 2012**

Organized workshops on Microsoft technologies on the university campus and a city wide event—DreamSpark Yatra— with 3000 students participating and GM Microsoft India as Guest of Honor.

**Member Editorial Board, MAGNIT, Fall 2012**

Worked on the editorial board of the golden jubilee edition of the college magazine.

**Organizer, Next Generation Networks Workshop, NIT Srinagar, Fall 2012**

Helped organize a technical workshop with participants from across the country.