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Aim: I am interested to work as a summer intern from May 2012. I am looking forward to work in the broad area of computer networking and mobile computing. I am open to any topic that allows me to get quality exposure to research/experience in this field. I take special interest in vulnerabilities and security issues in cognitive radio networks, resource and spectrum allocation in cognitive radio networks, applications of cloud computing in wireless technology.

Education:

Ph.D. Student, Department of Electrical Engineering and Computer Science, University of Central Florida

M.S., (Computer Engineering), Department of Electrical Engineering and Computer Science, University of Central Florida (Fall 2011)
GPA = 3.883/4.0

B. Tech, Department of Computer Science and Information Technology, West Bengal University of Technology, Kolkata, India (Aug 2005 - May 2009)
GPA: 8.79/10.0

Experience:

PrOUnlimited @ Blue Coat Systems Inc.: Cloud Security Intern at Blue Coat's Cloud Services Development Department for PrOUnlimited. (May 2011 – August 2011)

School of EECS, NetMoC Lab, University Of Central Florida: Research Assistant (Fall 2009- Present).

Skills:

Platforms: Windows XP/Vista/7, Linux (Fedora and Ubuntu)
Languages: C, C++, Java, Java Script, Java Server Page, HTML, XML etc.,
Tools/ Environments: NS-2 (Network Simulator), Matlab, Simulink, Eclipse,
Others: Socket Programming, Tcl/Tk, Awk, Ettercap, Perforce, Emma, Maven, Spring Framework, Amazon Web Services (EC2 cloud service)

Awards:

1. Provost Graduate Fellowship recipient at University of Central Florida for pursuing Ph.D.
2. Best Paper Award in IEEE PIMRC 2011, for the paper titled, "Performance based Channel Allocation in IEEE 802.22 networks".

Publications:

- *Journals*

1. Wenjing Wang, **Shameek Bhattacharjee**, Mainak Chatterjee and Kevin Kwiat, ``Collaborative Jamming and Collaborative Defense in Cognitive Radio Networks'', under review in *Elsevier Journal of Pervasive and Mobile Computing*.

- *Conferences*

1. **Shameek Bhattacharjee**, Saptarshi Debroy and Mainak Chatterjee, ``Trust Computation through Anomaly Monitoring in Distributed Cognitive Radio Networks, *In Proc. of the 22nd Annual IEEE International Symposium on Personal Indoor Mobile Radio Communications (PIMRC)*, September 2011.

2. **Shameek Bhattacharjee**, Saptarshi Debroy, Mainak Chatterjee and Kevin Kwiat, ``Trust Based Fusion over Noisy Channels through Anomaly Detection in Cognitive Radio Networks'', To Appear in *ACM 4th International Conference on Security and Information of Networks (SIN)*, November 2011.

3. Saptarshi Debroy, **Shameek Bhattacharjee** and Mainak Chatterjee, ``Performance based Channel Allocation in IEEE 802.22 networks'', *In Proc. of the 22nd Annual IEEE International Symposium on Personal Indoor Mobile Radio Communications (PIMRC)*, September 2011. (**Best Paper Award**)

4. Saptarshi Debroy, **Shameek Bhattacharjee**, Mainak Chatterjee and Kevin Kwiat, ``An Effective Use of Spectrum Usage Estimation for IEEE 802.22 networks'', *accepted In Proc. of Wireless Communications and Networking Conference (WCNC)*, 2012.

5. Saptarshi Debroy, **Shameek Bhattacharjee**, Mainak Chatterjee, ``Spatial Distribution of Spectrum Usage in Cognitive Radio Networks'', submitted in *9th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad-hoc Communications and Networks, (SECON)*, 2012.

Research Projects:

1. **Vulnerability issues in Cognitive Radio Networks(completed/ towards a journal submission):** An analysis of vulnerabilities inherent in Cognitive Radio design, vulnerabilities and corresponding threats posed in Cognitive Radio Networking, and comprehensive survey of attack types and research solutions on mitigating potential threats.

2. Spectrum Map prediction and Channel Allocation in IEEE 802.22 networks (towards a journal submission): This project deals with finding out the spectrum occupancy scenario at any arbitrary location. Performance metrics may be calculated with spatial distribution of spectrum usage known. Subsequently we provide an on demand channel allocation scheme based on performance metrics where base station allocates interference free channels using spectrum map.

3. Using Infrastructure Cloud Computing Services for Trust Computation in wireless cognitive radio networks: Parallel computation of trust metrics for nodes in a cognitive radio enabled mobile ad-hoc network using third party cloud services. Used Amazon EC2 service and Amazon Linux AMI.

4. Fault Tolerant Information fusion in Cooperative Cognitive Radio Networks under Collaborative and Non Collaborative Byzantine Attacks.

Class Projects:

1. Internet Worm Modeling: Discrete Time Simulations - A network simulation to model the behavior of Internet worm propagation with and without traffic delay, with Java language and Matlab.

2. Collaborative and Location Based Attack Strategies in Cognitive Radio Networks : Identifying ways where Malicious Users may collaborate to come up with an effective attack strategy than singular attacks, and how location might affect the attack defense policies.

3. Coexistence among Malicious and Honest Secondary Users in Cognitive Radio Networks: Looking from a Game Theoretic perspective: A close look on interactions likely to take place among malicious and honest nodes, and games that might exist between Malicious and Honest Users.

4. Analysis of Man in the Middle Attack: A simple project to conduct a Man in the Middle Attack, using Arp-Spoof and other tools and analysis of Man in the Middle Attacks.