Abhishek Samanta

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Summary

- 6 years of industrial and academic experience.
- Excellent knowledge and hands-on experience with Java, C++, C.
- Excellent researcher, dedicated and knowledgeable.

Technical and Personal skills

- **Programming Languages:** Java, C++, C, Perl, JavaScript, Matlab, Racket.
- **Tools:** Eclipse, MatLab, Netbeans, NS-2.29, GlomoSim.
- **Operating Systems:** Linux, Mac, Windows.

Education

- **Northeastern University**   **Boston**
  PhD,Computer Science   *September 2010–January 2015*
- **Jadavpur University**   **Kolkata, India**
  BE, Computer Science   *2004–2008*

Experience

- **Google**   **Mountain View**
  Software Engineer, Google Ads   *October 2014–Present*

- **Northeastern University**   **Boston**
  Research Assistant   *September 2011–September 2014*
  - Rendezvous: Research to come up with efficient algorithm to guarantee rendezvous among wireless devices as soon as possible in cognitive radio networks. *Language: C, Tool: GlomoSim, Link: http://goo.gl/S59eer.*
  - Samaritan-Cloud: Research to produce a scalable mobile infrastructure to enable group of mobile and geographically dispersed personal computing devices to form a cloud for the purpose of privately sharing relevant locality-specific information.*Link: http://goo.gl/zN1Gwd.*
  - Secured Chat: Built secured chat software using java Swing and Bouncy-Castle cryptography APIs. *Language: Java, Tool: Eclipse and Netbeans.*
  - NEU library access: Built google chrome extension for easy access to scientific documents through Northeastern University proxy server. *Language: JavaScript, Tool: Eclipse, Link: http://goo.gl/jOAmvi.*

- **VMWare**   **Palo Alto**
  MTS-Summer intern   *May 2013–August 2013*
  - Proposed and implemented technique to improve performance of learning algorithm used for correct prediction for automated (horizontal) auto-scaling of cloud.
  - Devised a queue based simulator for checking performance of auto-scaling algorithm.
  Language: Java, Tool: Eclipse.

Raytheon BBN Technologies <div align="right">**Cambridge**</div>

Summer intern <div align="right">*June 2011–August 2011*</div>

Researched to build a model for measuring quantitative scaling of wireless networks. *Language: Java, Tool: Eclipse.*

Northeastern University <div align="right">**Boston**</div>

Teaching Assistant <div align="right">*September 2010–April 2011*</div>

Assisted Prof. Gene D. Cooperman and Prof. Kenneth P. Baclawski with Algorithm course and Introduction to Database Management, respectively.*Language: Java, Tool: Eclipse.*

IBM <div align="right">**Bangalore, India**</div>

Research Engineer <div align="right">*June 2008–June 2010*</div>

- Virtual Fab: Developed a cloud based distributed computing engine called VirtualFab.
- MaskDataPrep: Developed an artificial intelligence based tool to minimize chip printing error.

Language: Java, Tool: Eclipse.

Publication

Journal

Abhishek Samanta and Dripto Bakshi. *Fault Tolerant Wireless Sensor MAC Protocol for Efficient Collision Avoidance* in International journal on applications of graph theory in wireless ad hoc networks and sensor networks (GRAPH-HOC).

Conference

- Sixia Chen, Alexander Russell, Abhishek Samanta, Ravi Sundaram. *Deterministic Blind Rendezvous in Cognitive Radio Networks* in ICDCS 2014.
- Abhishek Samanta, Fangfei Zhou, Ravi Sundaram. *SamaritanCloud: Secure and Scalable Infrastructure for enabling Location-based Services* in IFIP Networking 2013.
- Ram Ramanathan, Abhishek Samanta, Tom La Porta. *Symptotics: A Framework for Analyzing the Scalability of Real-World Wireless Networks* in ACM PE-WASUN 2012.
- Nicolas Mayor, Jean-Frederic Wagen, Abhishek Samanta and Ravi Sundaram, *PhoneGuard: A smartphone in the coalmine* in ACWR 2011.
- Abhishek Samanta, Dripto Bakshi, Amitava Mukherjee and Mita Nasipuri. *Energy Efficient Wireless Sensor MAC Protocol for Collision Avoidance* in NetCoM-2009.
- Dhrubajyoti Saha, Abhishek Samanta and Smruti R. Sarangi. *Theoretical Framework for Eliminating Redundancy in Workflows* in IEEE SCC 2009.

Service

- Reviewed transcripts submitted at International Journal of Computer and Telecommunications Networking, Elsevier (COMNET).
- Reviewed transcripts submitted at IEEE Transactions on Mobile Computing (TMC).
- Reviewed transcripts for CSNA 2011.