

Rishabh Mukherjee

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Professional Experience

- **ENO at Credit Suisse, Mumbai** (Jul. 2010 to present)
RAD for Client Analytics in the Advanced Execution Services (AES) Group. Experienced with Market Data Systems, Tick databases, Transaction Cost Analysis and development of GPGPU based low latency calculation engines(calculation of Options, greeks and statistics like *VWAP* for very large baskets)
- **Systems Administrator at IIIT Hyderabad** (Jul. 2008 to April 2010)
Looked after all network and server services. Provided end to end delivery of all computational setups required by various research groups.
- **Research Intern at RSA Data Security, Bangalore** (Feb. 2008 to Jun.2008)
Developed heuristics for NP-Complete problems that occur in automating various information systems access control schemes like *Role Based Access Control*(RBAC).

Education

- **Master of Science by Research (2010)**
International Institute of Information Technology, Hyderabad
– Dissertation Topic: Analyzing algorithm performance on the CUDA GPGPU platform.
- **B. Tech (Hons.) in Computer Science (2008)**
International Institute of Information Technology, Hyderabad

Areas of interest

Algorithmic Execution platforms, High Performance Computing, Distributed Computing, Cryptology.

Publications

- K.Kishore, Rishabh Mukherjee, Suhail Rehman, P.J.Narayanan, K.Srinathan:**A Performance Prediction Model for the CUDA GPGPU Platform.** *The 16th IEEE International Conference on High Performance Computing (HiPC 2009)*, 16-19 Dec 2009, Kochi, INDIA. Full version submitted to the *Journal of Parallel and Distributed Computing*.

Manuscripts (submitted papers/working drafts) - Electronic versions available on my website

- Pranav K Vasishtha, Anuj Gupta, Prasant Gopal, Piyush Bansal, Rishabh Mukherjee, Poornima M, K.Kishore, K.Srinathan: **How Far Must You See to Hear Reliably?** *Submitted to Foundations of Computer Science (FOCS) 2011*
- Piyush Bansal, Rishabh Mukherjee, Anuj Gupta, Prasant Gopal, K.Srinathan: **How to Multiply Linearly Shared Secrets with Linear Communication Complexity?** *Submitted to CRYPTO 2011*
- Rishabh Mukherjee, Suhail Rehman, K.Kishore, P.J.Narayanan, K.Srinathan: **Fast and Scalable Encryption using GPU's.**

Teaching Assistantships

- **Undergraduate courses:** Data Structures and Programming (Spring, 2009), Algorithms (Spring, 2009)
- **Graduate Courses:** Advanced Problem Solving (Monsoon, 2009), System and Network Security(Monsoon, 2007), Topics in information Security (Monsoon, 2008)

Skillset

- **Environments:** Unix, Linux, BSD and it's derivatives, Microsoft Windows.
- **Programming Languages:** Development - C, C++, Java, C#, Scripting - Perl, Python, Bash.
- **Parallel Computing Tools:** Nvidia CUDA, IBM Cell, openMP and MPI.
- **Documenting Tools:** L^AT_EX, Microsoft/Open Office

Additional Honors

- Won first prize and another consolation prize at Yahoo! HackU, Hyderabad held by Yahoo! India in January 2010.
- Was one of the winners of a national level open Cryptology competition held by RSA Data Security in August 2007.
- Recipient of the Pratibha Scholarship from the Govt. of Andhra Pradesh for academic excellence in pre-college academics.