DEEPAK NARAYANAN

deepakn@mit.edu | (617) 794 0247 | web.mit.edu/deepakn/www/
Applying to the Department of Computer Science for a PhD

Education

Massachusetts Institute of Technology (MIT) ***Cambridge, MA***

Bachelor of Science in Computer Science and Engineering (Course 6-3) and Bachelor of Science in Mathematics (Course 18)
GPA: 4.9/5.0 *December 2013*
Candidate for Master of Engineering in Computer Science and Engineering (Course 6-3) GPA: 5.0/5.0 *June 2015 (expected)*

Relevant coursework:

Computer Science -- Database Systems; Distributed Systems; Performance Engineering of Software Systems; Machine Learning; Computer Systems Security; Advanced Natural Language Processing; Design and Analysis of Algorithms; Elements of Software Construction; Computer Architecture; **Mathematics --** Project Lab in Mathematics; Seminar in Discrete Mathematics; Theory of Numbers; Probability and Random variables; Linear Algebra

National Public School ***Bangalore, India***

Secured 96.2% in AISSCE conducted by CBSE, New Delhi *May 2011*
All India Rank 229 in IIT-JEE 2011 from among 468,000 candidates who took the test.

Professional Experience

Microsoft ***Bellevue, WA***

Software Development Engineering Intern, Bing Ads *May 2014 – August 2014*

- Implemented a Machine Learning experimentation framework for the Bing Ads Click Prediction team.
- Built a tool that allows engineers to experiment with different click prediction indicators much more efficiently.

MIT, Department of Electrical Engineering and Computer Science ***Cambridge, MA***

Teaching Assistant, Introduction to Algorithms (6.006) *February 2014 – May 2014*

- Taught a recitation section of about 35 students twice a week.
- Helped design and grade Problem Sets and Quizzes for the 300 students in the class.

Pinterest ***San Francisco, CA***

Software Engineering Intern, Data Infrastructure team *May 2013 – August 2013*

- Helped build a framework that enabled more decisions made at the company to be data-driven.
- Worked extensively on improving the reliability and efficiency of Pinterests' pipelined data workflows.

Microsoft Research India ***Bangalore, India***

Research Intern *June 2012 – August 2012, January 2013*

- Designed and implemented a type-ahead email search system in C# for Microsoft Outlook.
- Used Machine Learning and Natural Language Processing techniques to return context-sensitive suggestions.

Projects

Transactions in a key-value store *March 2014 – May 2014*

Built the ability to handle cross-shard transactions into a replicated, sharded key-value store.

SplitSecure *November 2013 – December 2013*

Built a scalable, distributed server-side password storage, which aims at forcing adversaries to compromise multiple servers in order to obtain a user's password.

Activities and Awards

- Writer on the Sports staff of the MIT newspaper, The Tech which is published biweekly. *February 2014 - present*
- Among the 35 students selected nationally to participate in the International Astronomy Olympiad (IAO) and International Mathematics Olympiad (IMO) Training Camps at HBCSE, Mumbai to select the Indian team. *May 2010 and May 2011*
- Study of Exceptional Talent (SET) member at Johns Hopkins University. *February 2007*