ASHU GUPTA

CONTACT INFORMATION

Graduate Student
Department Of Computer Science
University of Illinois Urbana-Champaign

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EDUCATION

University Of Illinois Urbana-Champaign

M.S. in Computer Science, May 2016

- GPA: *4.0/4.0*
- Advisor: Dr Tandy Warnow

IIT Kanpur, Kanpur, India

B.Tech in CSE, June 2014

- GPA: *9.5/10.0*
- Awards: *Academic Excellence*

SUMMER INTERNSHIPS

Apple Inc, Cupertino, USA

Real-time analytics on Spark
Software Engineering Intern   *Summer 2015*

- Developed spark application + web server to monitor media performance in real-time
- Deployed the application on multi node cluster on Amazon EC2 using CDH stack
- **Technologies:** SCALA, Flume, Spark, Yarn, Play Framework, HighCharts, Amazon EC2, CDH

IBM Research, New Delhi, India

Computing Iceberg Cubes on Hadoop
Dr Rajeev Gupta, Dr Prasad M Deshpande   *Summer 2014*

- Developed a novel MR algorithm on Hadoop for finding iceberg cube efficiently.
- Reduced map output and network cost by an efficient hybrid batching scheme.
- **Technologies:** Hadoop, JAVA

Microsoft Research, Redmond, WA, USA

Big Data Processing on GPU
Dr Jin Li, Dr Sudipta Sengupta   *Summer 2013*

- Designed an efficient parallel algorithm for K-means clustering algorithm for Big Data.
- Obtained 500x speedup of K-means algorithm on NVidia GTX TITAN
- **Technologies:** Nvidia GPU, CUDA, C++

ACADEMIC ACHIEVEMENTS

- Received Academic Excellence Award for the term 2010-2014 at IIT Kanpur.
- Secured All India Rank -127 in IIT JEE 2010 among 400,000 applicants.
- SAT subject Test (Physics, Chemistry, Mathematics-II) score 2400/2400

HOBBY PROJECTS

Web App: Music Database and Recommendation system
Demo: http://web.engr.illinois.edu/ agupta80/musicDB/
- Web-app of music database with collaborative filtering based recommendation system at back-end
- **Technologies:** HTML/CSS, PHP, postgreSQL, Ajax, Youtube API, Java

RELEVANT COURSES

Data Analytics & AI: Advance Data Mining, Machine Learning, AI, Database Systems
Systems: Distributed Systems, Computer Architecture, Compilers, OS, Computer Networks
Computer Science: Data Structure and Algorithms, Functional Programming, Computer Graphics

TECHNICAL SKILLS

- **Languages:** C/C++, SCALA, JAVA, PYTHON, CUDA, MATLAB
- **Tools:** OPENGL, WEKA, HADOOP, SPARK, YARN, AMAZON EC2, CDH
- **Web:** HTML 5, PHP, JAVASCRIPT, SQL, PLAY FRAMEWORK

POSITION OF RESPONSIBILITY

- Coordinator of event Rube-Goldberg in Techkriti'13 at IIT Kanpur.
- Student Mentor and a member of Counseling Service at IIT Kanpur.

HACKATHONS

- Bagged 2nd position and Won cash prize of 400$ in Allstate Hackathon 2014 at UIUC
- Created Web App to give music recommendations based on mood at Yahoo HackU.