

Nishant Khurana

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EDUCATION

Candidate for **Master of Science in Engineering: Computer and Information Science**, December 2009
University of Pennsylvania, School of Engineering and Applied Science, Philadelphia PA

Bachelor of Engineering in Information Technology, June 2006
University of Delhi, Netaji Subhas Institute of Technology, New Delhi, India
Aggregate: 76.7%, First Class with Distinction

PROFESSIONAL EXPERIENCE

Yahoo! India Research and Development, Bangalore, India **(Jun 2006 – Jul 2008)**
Software Engineer

- Worked on platform for publishing **Yahoo! FrontPage** for many countries.
- Developed Page Metrics Reporting tool which processes gigabytes of web server logs everyday to produce user behavior reports.
- Participated in Security Task force at Yahoo! called Paranoids. Conducted security reviews for **Yahoo!** products.
- Worked on microsite publishing platforms and JavaScript based reporting solutions.

Yahoo! India Research and Development, Bangalore, India **(Dec 2005 – Feb 2006)**
Research Intern

- **Contextual Search**: Researched on techniques for semantic representation of unstructured data and text mining. Proposed application of Ontologies for **Yahoo! Hotjobs** to make recruiter's search for resumes more efficient.
- **Search Plug-in**: Closely studied Yahoo's vertical search platform and wrote a search plug-in to reorganize the queried data as per business requirements.

Power Grid Corporation of India Ltd., Gurgaon, Haryana, India **(Jun 2005 – Jul 2005)**
Summer Intern

- **Asset Management System**: Developed a web application to maintain records of infrastructural details of the organization.

PROJECTS

• **Distributed Query Processing using Map-Reduce** **(Sep 2008 – Dec 2008)**

Implemented basic relational operators and aggregate functions as Map-Reduce jobs over distributed data. We used Hadoop framework to run Map-Reduce programs and Hbase as source and sink for Map-Reduce jobs instead of HDFS directly.

• **ERSim : Evolutionary Robot Simulator** **(Feb 2006 – Jun 2006)**

Developed a software simulation for motion of a path finding robot in a user defined 3D environment. The artificial neural network controlling the brain of the robot was evolved using genetic algorithms instead of traditional gradient descent approach.

AWARDS AND ACHIEVEMENTS

- Recipient of Merit Scholarship for two consecutive years during Bachelor of Engineering.
- Winner of All India Science Open Merit Test - 2000 (RANK -16).
- Awarded **Yahoo! U Rock** award for going beyond the call of duty (Q2 of 2007).
- Winner of **Yahoo! HACK Day** (Q3 of 2008).
- Awarded best cartoonist award by **The Times of India** newspaper during The Electioneering Cartoon Contest (2000).

TECHNICAL SKILLS

Languages: C, HTML, XML, SQL, Perl, PHP

Operating Systems: UNIX, Linux, Windows 9x/NT/2000/XP

Databases: MySQL, MS SQL Server