

# Vineet Gupta

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CONTACT INFORMATION      6266 Cates Ave, Apt 2 W.      *E-mail:* vineet@ural.wustl.edu  
St Louis, MO 63130      *Phone:* (314) 369-5520

SKILLS      

- Python, C/C++, Java, XML, JSP, PHP, JavaScript, MySQL, DB2
- SOAP, XMLBeans, Tibco
- WebLogic, Eclipse, Matlab/Octave
- Unix/Linux, Windows

RESEARCH EXPERIENCE      **Washington University in St Louis, St Louis, MO**  
*Stormo Lab*      **Spring 2007 - Present**  
Adviser: Prof. Gary Stormo, Department of Genetics

- Involved in research related to computational methods of prediction of transcription factor binding sites in DNA sequences.
- Worked with various machine learning algorithms and transformations to expedite process of motif finding.
- Currently working on to improve most popular technique Quadratic Programming which gives suboptimal results.

WORK EXPERIENCE      **Lehman Brothers, New York, NY**  
*Global Position Manager*      **Summer 2007**  
This trading system maintains stock positions in real time. I wrote a multithreaded Java service for it to maintain historical information. This involved a Lazy Writer which writes to database in lazy fashion by buffering transactions and handles thousands of them per second. And a fault tolerant multi layer database structure, which also facilitates offline commit operations.

WORKS AND PUBLICATIONS      Dana S.F. Homs, **Vineet Gupta**, Gary D. Stormo. Determining the quantitative specificity of DNA-binding proteins from example binding sites. *PLoS. To be published*, (2007).  
**Text summarization using coreference resolution.** *Undergraduate Thesis*  
Pronominal coreference resolution was main theme of this work. I wrote a natural language processing engine which could generate summary of given document, based on analysis of coreference chains.

EDUCATION      **Washington University in St Louis, St Louis, MO**      **2006-present**  
M.S., Computer Science:

- GPA: 3.83/4.00
- Expected graduation: Fall 2007.

  
**Madhav Institute of Technology & Science, Gwalior, India**      **2002-2006**  
B.E., Computer Science & Engineering (Honors):

- Awarded Spring 2006.

OTHER EXPERIENCES      

- Teaching assistant for Spring 2007 WashU undergraduate class *Object oriented design laboratory*.
- Web designer/programmer for undergraduate college website during Junior and Senior years.