

LOKESH S. SHRESTHA

2074 Frederick Douglas Blvd, Apt 1C, New York, NY 10026

Phone: (646) 515-8024 • Email: lokesh@cs.columbia.edu

EDUCATION

Columbia University, New York, NY

Sep 2003 – Present

MS Computer Science

Courses include Database Management Systems, Natural Language Processing, Computational Genomics, and Machine Learning.

GPA 4.11, GRE (Q/A/V: 800/750/620)

Princeton University, Princeton, NJ

Sep 1996 - May 2000

BSE, Computer Science, Minor: **Engineering Management Systems**.

Courses taken include Theory of Algorithms, Computer Architecture, Algorithms and Data Structures, Operating Systems, Discrete Mathematics, Advanced Programming Techniques, Probability and Stochastic Systems

EXPERIENCE

Columbia University, New York, NY

Jun 2003 – Present

Graduate Research Assistant

- Designed and coordinated the development of an n-tiered system that makes available through an email-client such as MS Outlook various natural language processing modules for email processing.
- Research in summarization of threads of email conversation with publications in prominent conference proceedings.

Abridge, Inc., New York, NY

Software Engineer

Jun 2000 - Oct 2001

- Researched key Information Extraction/Retrieval and Natural Language Processing paradigms to develop an engine that detects and makes visible relationships emerging from the content and context of message flows (Email, SMS)
 - Coordinated the development of a self-learning text classifier and a natural language interface to a messaging system with the VP of Knowledge Engineering.
 - Implemented automated quantifiable quality control (QA) processes for complex data clustering and categorizing software.
- Designed and implemented object oriented modules in Java for an n-tiered enterprise software architecture:
 - Integrated easily configurable software modules with the use of various XML technologies into Abridge's patent pending rule-based processing engine.
 - Designed various entity models for a relational databases and implemented entity-object relational mapping framework for those models.
- Optimized and enhanced performance of server processes using efficient RDBMS techniques and various analytical tools such as Optimizeit (VMGear).

WRQ, Inc., Seattle, WA

Summer Intern

Jun 1999 - Aug 1999

- Designed and developed sample models for Reflection (a PC to IBM mainframe host connectivity software from WRQ).
- Developed a test schema and performed intensive testing of Reflection.

Princeton University, Princeton, NJ

Research Assistant/Lab Teaching Assistant

Jun 1997 - Aug 1998

- Developed a cognitive model emulating human performance in the assignment of resources in transportation systems. Used ACT-R simulation system that implements productions (if-then rules) in LISP to understand how humans learn and use problem-solving strategies in complex dynamic environments.
 - Analyzed the significance of the control of territory to implement strategies for a successful computer game playing of the Nepalese board game of Bagh-Chal. Developed an optimized implementation of a min-max algorithm.
-

COMPUTER SKILLS

Proficient in Java, C, C++, LISP/SCHEME, SQL, PHP, PERL

Experienced in RDBMS (Oracle), OOA/OOD, UML

Extensive Development in Linux, Win2k, WinNT, UNIX (Solaris, Iris)

INTERESTS

- Enjoy ping-pong, soccer, reading, traveling, hiking, camping, cycling, guitar, and percussions.
- Member of the Association for Computational Linguistics.