

# Swapneel Sheth

191 Claremont Avenue, Apt. 54, New York, NY 10027  
646-675-2193, swapneel@cs.columbia.edu, www.cs.columbia.edu/~swapneel

## EDUCATION

**Columbia University, Graduate School of Arts and Sciences**  
Ph.D. in Computer Science

New York, NY  
Expected December 2011

**Columbia University, Fu Foundation School of Engineering and Applied Science** New York, NY  
MS in Computer Science, GPA 4.1/4.0 December 2007

**Mumbai University, Sardar Patel College of Engineering** Mumbai, India  
BE in Computer Engineering, 69% (2nd in class) May 2006

## RELEVANT COURSEWORK

Programming and Problem Solving, Programming Languages and Translators, Networking Laboratory, Advanced Database Systems, Web Enhanced Information Management, Content Networking, Operating Systems, Game Theory, Artificial Intelligence, Introduction to Computational Complexity, Computer Architecture

## EXPERIENCE

**Columbia University**

Research Assistant, Lab of Prof. Gail Kaiser

New York, NY  
Spring 2007 - current

- Designed, built a Theoretical Model, and implemented a CPU Torrent Mechanism for GeneTegrate (a computational platform for the analysis of distributed heterogeneous biological data)
- Working on a project called "genSpace" which explores social networking metaphors for knowledge sharing and scientific collaborative work

**Intelligent Search Technologies Ltd.**

Summer Intern

White Plains, NY  
Jun - Aug 2007

- Implemented a Module for Transliteration in C and ported the code to Windows, Linux, Solaris, HP UX, and AIX
- Wrote wrappers in Ruby enabling clients who use Ruby to integrate legacy C code through Shared Objects (DLLs and .so)

**Atos Origin**

Help Desk Manager

Torino, Italy  
Jan - Feb 2006

- Student Intern for the Winter Olympics 2006 at Torino, Italy
- 1 out of 25 students selected worldwide for the Olympic Intern Program
- Managed the Technology Help Desk at Cesana Pariol and headed a team of 20+ volunteers
- Responsible for providing On-Venue support to customers such as Torino Olympic Committee, Kodak, Lenovo, and Omega

## PROJECTS

- Designed and implemented an "expert system" for the domain of Clothes Selection and a Rule-based Interpreter in Lisp for "Artificial Intelligence" taught by Prof. Alexander Pasik
- Compared and benchmarked various programming languages and web application development frameworks for "Web Enhanced Information Management" taught by Prof. Gail Kaiser
- Designed and implemented "MARS" - a music mixing language for "Programming Languages and Translators" taught by Prof. Stephen Edwards
- Implemented a Low Cost Ethernet Phone using VoIP as Final Year Undergraduate Project at Abundance Networks (Mumbai, India), a division of OSS Corporation (Shelton, CT)

## TECHNICAL SKILLS

---

Operating Systems	Linux, Unix, Windows, Mac OS X, Cygwin
Programming	C/C++, Java, Ruby, Lisp, ANTLR, Swish, C#, L <sup>A</sup> T <sub>E</sub> X
Web Technologies	HTML, XML, JSP, Servlets, Ruby on Rails, .NET
Tools	Eclipse, Rational Rose, WebSphere, Microsoft Visual Studio
Database Systems	Oracle (SQL, PL/SQL), MySQL, Microsoft SQL Server

---

## PUBLICATIONS

C. Murphy, S. Sheth, G. Kaiser, L. Wilcox. *genSpace: Exploring Social Networking Metaphors for Knowledge Sharing and Scientific Collaborative Work*. Proc of the First International Workshop on Social Software Engineering and Applications (SoSEA), L'Aquila, Italy, Sept 2008

S. Sheth and G. Kaiser. *CPU Torrent - CPU Cycle Offloading to Reduce User Wait Time and Provider Resource Requirements*. Technical Report cucs-030-08, Dept. of Computer Science, Columbia University, 2008.