

Marilyn C. Cole

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Education

M.S. Computer Science, New York University, Fall 2006 - May 2007, GPA: 3.7
B.S. Computer Science, Georgia Institute of Technology, Fall 1999 - May 2003
Specializations: Intelligent Systems, Theory.

Teaching Experience

Teaching Assistant, V22.0310-001 and 002: Basic Algorithms and Basic Algorithms Honors

New York University, New York, New York, Spring 2007

Walked students through rigorous in-class demonstrations of understanding complicated algorithms in tree and graph theory, dynamic programming, and sorting complexity.

Instructor, Impossible Problems, at cSplash, a Math and CS Festival for High School Students, NYU, Spring 2007

Taught a course on unsolved problems and assisted with organization for a large scale math and CS weekend event.

Teaching Assistant, CS1050: Understanding & Constructing Proofs

Georgia Institute of Technology, Atlanta, Georgia, Spring 2001

Helped students with the understanding of basic concepts in Computer Science logic and theory, graded homework on propositional logic.

Research Interests

Capabilities of AI and Machine Learning, Theoretical Computer Science, Algorithms, Exemplary CS and Math Teaching, Encouraging Females' and Young Girls' Interest in CS.

Research Experience

Research Engineer Intern

Google, New York, New York, Summer 2007

Worked with Machine Learning algorithms to improve Google Local data.

Research Development: AI Software Creation

Georgia Tech / General Electric, Atlanta, Georgia, Spring 2003

Served as Technical Lead for the planning and development of an artificially intelligent system using case-based reasoning to analyze large amounts of gas turbine diagnostic data.

Employment History

Student Ambassador

SUN Microsystems, New York University, NY, Fall 2007 - current

Representing the SUN open source initiative among the student body of NYU.

Software Developer

Micro Office, Inc., New York, NY, Fall 2006 - current

Perl CGI, PostgreSQL and other web development for an exciting start-up.

Systems Engineer

Livewire, Inc., Atlanta, GA, Fall 2003 - Spring 2006

Embedded real-time systems development with ANSI C. MPEG decoding, graphics manipulation, and hardware communications were all managed and organized within major time and space restrictions.

Internet and eBusiness Developer

Merial, Ltd., Atlanta, GA, Spring 2002 - Fall 2003

Development, maintenance, and management of merial.com and supplementary sites included use of HTML/CSS, SQL/Oracle, ASP with Perl, and Java.

Service

Women in Computing, New York University: Active member, tutor, and new webmistress.

Association of Computer Machinery (ACM), New York University: Secretary and active member.

Women's Resource Center, Georgia Institute of Technology: Active volunteer and performer.

National Society of Collegiate Scholars, Georgia Institute of Technology: Technology chair and active member.

Skills

Programming Languages C, Python, Java, Ruby, Common LISP, Perl, C++, x86 assembly.

General Computing Windows and Unix-based systems (specifically Ubuntu and Debian Linux and Mac OS X); web-application development with XHTML/CSS, CGI, PHP, JavaScript/AJAX and Adobe Photoshop.

Languages Conversational French.