

# Ameet Soni

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## EDUCATION

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**University of Wisconsin-Madison**, Madison, WI ■ Fall 2004 on  
PhD Program in Computer Sciences  
GPA: 4.0/4.0 (12 Credits)

**University of Michigan-Ann Arbor**, Ann Arbor, MI ■ Spring 2004  
**B.S. with High Distinction**, Honors in Computer Sciences, **Academic Minor** in Biology  
Overall GPA: 3.84 out of 4.0 (160 Credits)

**Adlai E. Stevenson High School**, Sterling Heights, MI ■ Spring 2000  
Graduated tied-1st in class of 563 students with 4.0/4.0 GPA

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## HONORS

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- July, 2004 on, Computation and Informatics in Biology and Medicine Predoctoral Traineeship, University of Wisconsin-Madison (supported by NLM Grant 5T15LM007359)
  - University Honors, 2000, 2001, 2002, 2003
  - College Honors Sophomore Award, University of Michigan 2002
  - James B. Angell Scholar, University of Michigan 2001, 2002
  - Ford Motor Co. & University of Michigan Minority Scholarship, 2001-2003
  - Ford Motor Co. Rouge Memorial Scholarship, 2000-2004
  - Regents Merit Scholar, University of Michigan 2000
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## RESEARCH EXPERIENCE

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At the University of Michigan-Ann Arbor:

**Michigan Molecular Interactions (MiMI) project**, Fall 2003, Spring 2004: I constructed a SOAP-driven harness between the MiMI system and the R statistical package, which allowed users to specify analyses of interest on data from the MiMI database (director: Prof. H. V. Jagadish), <http://www.eecs.umich.edu/db/mimi/>

**Senior design project**, Fall 2003: Our team project was developing a network health monitoring system to detect and report systems failures and possible security invasions on the EECS computing network at the University of Michigan (supervisor: Prof. Igor Markov and Departmental Computing Organization)

**Univ. of Michigan Discrete Event Systems Project**, Summer 2003 through Summer 2004: I conducted research on control theory and the implementation of diagnoser theory and discrete event systems. I updated and developed a GUI for the publicly available UMDDES library. This allows individuals to quickly formulate diagnosers and finite automata and perform operations efficiently. (supervisor: Prof. Stephane Lafortune, ECE Division), <http://www.eecs.umich.edu/umdes/index.html>

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#### WORK/VOLUNTEER EXPERIENCE

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**CS 302 Course Instructor**, University of Wisconsin, Fall 2004 and Spring 2005: I led three, hour long lectures per week for sixty students over two semesters. The course, Intro to Programming, covered many basic and advanced topics in object oriented programming using the Java programming language specifically.

**Tutor / Student Study Guide Leader**, University of Michigan, Fall 2002 and Spring 2003: Working for the EECS Department's EECS Learning Center, I tutored lower level undergraduate students taking EECS 183, 280, and 281, covering all mandatory introductory and advanced programming classes. I also led a student study guide session for EECS 203 Discrete Mathematics and Logic (supervisor: Prof. Karen Langona).

**Volunteer Tutor**, Vetal Elementary and Middle School, Detroit, MI, Fall 2002: As part of the Detroit Project (DP), I participated in P.R.I.D.E., an after school mentoring program for underprivileged youth in the late elementary years in inner-city Detroit. The program was designed to help young students take interest in academics and out of the danger they may experience on the streets around the neighborhood.

**Systems Admin Assistant – Testing Engineers & Consultants**, Troy, MI Summer 2002: I assisted in management of network and systems upgrades, trained engineers in the use of databases to improve efficiency in testing and reporting, and helped maintain accounting for a medium sized business (supervisor: Brian Belian, Systems Administrator).

**Varsity Debate Coach**, Stevenson High School, Sterling Heights, MI, Fall 2000 - Winter 2001: I utilized the many skills I obtained as a varsity debater to help my former teammates as well as first year debaters compile reports and evidence on current issues and policy research. The work we put in aided the varsity squad win the school's first State Championship in two decades.

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#### EXTRACURRICULAR ACTIVITIES & AWARDS

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- Intramural Co-ed Volleyball, Spring 2005
- TAA Steward for Computer Sciences, Spring 2005
- Student ACM Officer at University of Wisconsin, Fall 2004 – Present
- College Level Policy Debate, 2000-2001

- Collegiate Policy Cross-X Debate Invitational Semi-finalist, University of Miami(OH), 2001
- John S. Knight Scholar-State Finalist in Policy Debate, State of Michigan, 2000

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**RELATED COURSEWORK**

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**Computer Sciences**

EECS 280, Programming & Data Structures, F01  
EECS 203, Discrete Structures, F01  
EECS 281, Data Structures & Algorithms, S02  
Math 425, Intro to Probability, S02  
EECS 370, Intro to Computer Architecture, F02  
EECS 376, Foundations of Comp Sci, F02  
EECS 484, Database Management Systems, F02  
EECS 482, Intro to Operating System, S03  
EECS 487, Interactive Comp Graphics, S03  
EECS 498, Formal Verification Methods, S03  
EECS 492, Intro to Artificial Intelligence, S04  
CS 760, Machine Learning, F04  
CS 731, Advanced Artificial Intelligence, S05  
CS 576, Intro to Bioinformatics, F04  
CS 776, Intro to Bioinformatics, S05  
Math 215, Calc III, F00

**Biology**

Bioinf 511, Seminar Bioinformatics, S03  
Biol 305, Genetics, S03  
Biol 311, Intro to Biochemistry, F03  
MCDB 427, Molecular Biology, F03  
MCDB 429, Cellular & Molecular Biology lab S04  
EEB 315, Ecology & Evolution of Infectious Diseases, S04  
Chem 211, Organic Chemistry, F00