

# MISHA ZATSMAN

## current

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## persistent

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## OBJECTIVE:

To obtain an interesting and challenging position in software development.

## SYSTEMS:

DOS, WINDOWS (95, 98, NT4, 2000), UNIX, LINUX, Xwindows, Mac OS

## LANGUAGES:

Java, C, C++, Perl, Scheme, LISP, Visual Basic, OmniMark, Prolog, Toolbook, JavaScript, SQL, (D)HTML, SGML, XML

## EDUCATION:

- Since 2001 **Cornell University**, ITHACA, NEW YORK
- Expected May 2002 Master of Engineering in Computer Science
  - **Courses** include Algorithms, Information Theory, and Advanced Programming Languages
  - Teaching Assistant for Honors Theory of Computing
- 1999-2001 **Cornell University**, ITHACA, NEW YORK
- 2001 Bachelor of Arts in Mathematics and Computer Science (Double Major)
  - Overall GPA: 3.62/4.0 Major GPA 3.87/4.0
  - **Courses** included Honors Theory of Computing, Honors Real Analysis, Reasoning about Knowledge, Databases, and Electronic Imaging
  - Dean's List
  - Member of **Ski and Snowboard Club**
- 1997-1999 **Rutgers University**, NEW BRUNSWICK, NEW JERSEY
- Overall GPA: 3.76/4.0 (4.0/4.0 in CS)
  - **Courses** included Operating Systems Design, Internet Technology and Abstract Algebra
  - In two years I earned 95 out of 120 credits towards a bachelor's degree
  - Dean's List, Rutgers College Merit Scholarship recipient.
  - Photographer and Darkroom Assistant for **school paper**, Snowboarder and Historian/PR Officer for **ski team**
- 1993-1997 **Commonwealth School**, BOSTON, MASSACHUSETTS
- Subjects included computer science (3 yrs), calculus (2 yrs), linear algebra, and physics (2 yrs)
  - 1996 SAT: 770 verbal, 770 math
  - mock trials team, Harvard Model United Nations team, acted in school plays, tutored peers in math and physics, yearbook editor and photographer

## EXPERIENCE:

- Summer 2001 **Amazon.com**, SEATTLE, WASHINGTON
- Software Development Intern in Search Group
- Improved indexing algorithm to speed up exact phrase match searches several hundred times
  - Implemented catalog and indexing changes that allowed items to appear in multiple indices
  - Redesigned indexing algorithm to support phrase matches across multiple spellings
  - Created several new indices
  - Maintained, improved, and debugged existing C code

- Summer 2000 **Quia Corporation**, BURLINGAME, CALIFORNIA  
Software Development Intern
- Designed and implemented Java Servlets that access and update Oracle database
  - Redesigned class structure to maximize modularity and reusability
  - Designed and created tables in Oracle
  - Modified Perl scripts to access database records instead of files
  - Above server-side programs allow users to create, edit, and use games and quizzes at [Quia.com](http://Quia.com)
- 1996-2000 **Inera, inc**, NEWTON, MASSACHUSETTS  
Software Developer
- Wrote [eXtyles 1.0](#) as a suite of VB DLLs, OmniMark programs, and VBA extensions to Microsoft Word to automate the conversion of documents to XML and enforce corporate styles
  - Developed highly interactive software in Visual Basic to assemble an electronic deliverables package consisting of text and graphic components of scientific journals
  - Designed and implemented in VB a Graphical User Interface to the SGML conversion software
  - Implemented and maintained a QA package for regularly and automatically checking the backwards compatibility of Inera's SGML conversion software
- Fall 1998 **Busch Campus Computing Center, Rutgers University**, PISCATAWAY, NEW JERSEY  
Lab Operator
- Helped students use computers (Intel, Macintosh, and XTerminals)
  - Regularly maintained computers and printers.
- Summer 1998 **Laboratory of Computer Science, Massachusetts General Hospital**, BOSTON, MASSACHUSETTS  
Software Development Intern
- Designed and implemented the conversion of a Toolbook application to a web-based application
  - Selected dynamic HTML as an accessible target technology
  - Wrote generic conversion program in Toolbook
  - Customized conversion for particular application
  - Converted application from Toolbook to dHTML using my conversion program
- 1995-1997 **Commonwealth School**, BOSTON, MASSACHUSETTS  
Bookstore Manager
- Performed daily sales of books, school supplies, and photographic material
  - Initiated, approved, and verified orders from suppliers
  - Calculated students' accounts
  - Managed inventory through a database
- Summer 1995 **Science Research Laboratory**, SOMERVILLE, MASSACHUSETTS  
Research Assistant
- Collected and analyzed x-ray data
  - Debugged programs
  - Proofread grant proposals
  - Created three-dimensional schematic diagrams of laboratory equipment

## REFERENCES:

Available on request.