

# STEVEN L. MARTIN

## OBJECTIVE

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To obtain a position in the field of Computer Science that is intellectually challenging and rewarding.

## EDUCATION

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- 2003 - present            University of California, Berkeley            Berkeley, California
- PhD student in Computer Science, systems concentration. Advised by Dr. Anthony Joseph.
  - Passed PhD preliminary exam in Computer Graphics, Fall 2004.
  - Currently on Academic Leave for 2005-2006.
- 2003 - 2005            University of California, Berkeley            Berkeley, California
- M.S. in Computer Science completed August 2005 (degree officially awarded December 2005).
  - M.S. thesis title: "Learning on Email Behavior to Detect Novel Worm Infections". Advised by Dr. Anthony Joseph and Dr. David Wagner.
- 1998 - 2003            University of Washington            Seattle, Washington
- B.S. with College Honors in Computer Engineering, Minor in Mathematics

## SUMMARY OF QUALIFICATIONS

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- Programming knowledge includes C and C++, C#, Perl, Python, Java, Scheme/Lisp, Miranda, assembly, and various other scripting languages. Familiar with many APIs on diverse platforms. Quick learner and efficient problem solver who creates solid, reusable code on nearly any OS.
- Industry experience in working with different architectures and sharing tasks with multiple developers over large code bases. Coursework, industry, and research experience with kernel development, network programming, database generation, search, and other systems work.
- Research experience with publications in Computer Security, Graphics, Artificial Intelligence, and Operating Systems.
- Substantial teaching experience as both a technology workshop leader and as a TA for multiple Computer Science and Engineering courses. Excellent written and oral communication skills.

## RELEVANT EXPERIENCE

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- 8/2005 – present            Amazon.com A9            Palo Alto, California  
*Software Development Engineer*
- Research on improving search result relevance for Amazon.com searches in a variety of novel ways.
- 12/2003 – 8/2005            University of California, Berkeley            Berkeley, California  
*Computer Science Graduate Research*
- Investigating novel ways of halting virus propagation. Advised by Dr. Anthony Joseph.
  - Researched *video mosaics*: two-dimensional arrangements of video tiles statistically placed in a manner that resembles a larger video. Advised by Dr. James O'Brien.
  - Investigated "*foot-skate*" *cleanup* from motion capture data. Advised by Okan Arıkan and Dr. David Forsyth.
- 6/2004 – 9/2004            Amazon.com A9            Palo Alto, California  
*Software Development Engineer Intern*
- Worked on a variety of projects involving Amazon.com search technology, including spell check, search database generation, and related searches.

7/1999 – 8/2003      Ed-Tech Development      Seattle, Washington

*Software Developer/Multimedia Consultant*

- Worked with a team of software engineers to develop educational tools for the University of Washington's Catalyst Initiative. ([www.catalyst.washington.edu](http://www.catalyst.washington.edu))
- Developed and taught workshops for faculty on a variety of topics focusing on multimedia.

6/2002 – 9/2002      Electronic Arts Tiburon      Maitland, Florida

*Software Engineering Intern*

- Reworked studio-wide build tools. Developed a system to automatically build and remotely test games on PlayStation 2, GameCube, and X-Box development machines via a GUI.
- Assorted other projects, including modifying low-level system libraries for all platforms to enable automatic remote debugging.

12/2001 - 6/2002      University of Washington      Seattle, Washington

*Computer Science and Engineering Undergraduate Research*

- Assisted Prof. Hank Levy in developing the NOOKS architecture for reliable device drivers.
- Worked with Dr. Zoran Popovic and Dr. Aaron Hertzman to develop a learning system capable of generating realistic animation data based on specifiable features from motion capture data.
- Developed a machine learning system that analyzes web page pairs to create easily understood anchor texts between them. Advised by Dr. Pedro Domingos and Corin Anderson.