

# JEFF HEFLIN

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## EDUCATION

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| 2001 ( <i>expected</i> )   | University of Maryland      | College Park, MD |
| <i>Ph.D. in Computer Science (Artificial Intelligence) (4.0 GPA)</i>   |                             |                  |
| ■ Graduate Advisor: James Hendler  |                             |                  |
| ■ Thesis: Knowledge Representation on the Internet: Achieving Interoperability in a Dynamic, Distributed Environment |                             |                  |
| 1999   | University of Maryland      | College Park, MD |
| <i>M.S. in Computer Science (4.0 GPA)</i>  |                             |                  |
| 1992   | College of William and Mary | Williamsburg, VA |
| <i>B.S. in Computer Science (3.9 GPA)</i>  |                             |                  |

## EXPERIENCE

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|---|--------------|------------------------|------------------|
| Research  | 1997-present | University of Maryland | College Park, MD |
| <i>Graduate Research Assistant</i>  |              |                        |                  |
| ■ Explored issues in ontology-based web languages   |              |                        |                  |
| ■ Built a suite of Java tools to support the SHOE language  |              |                        |                  |
| Teaching  | 1996-1997    | University of Maryland | College Park, MD |
| <i>Graduate Teaching Assistant</i>  |              |                        |                  |
| ■ Conducted Introduction to CS recitation sections  |              |                        |                  |
| ■ Assisted students during regular office hours   |              |                        |                  |
| ■ Graded projects, homework, quizzes and exams  |              |                        |                  |
| Industry  | 1999-present | ISX Corporation        | Arlington, VA    |
| <i>Technical Consultant</i>   |              |                        |                  |
| ■ Contributed to the design and development of a project to apply semantic markup to Intelink, the U.S. intelligence community's intranet |              |                        |                  |
|   | 1992-1997    | SRA Corporation        | Arlington, VA    |
| <i>Member of the Professional Staff</i>   |              |                        |                  |
| ■ Supervised the full life-cycle for a corporate-wide Quality Assurance database  |              |                        |                  |
| ■ Designed and administered an Oracle database that supports the payment of DOD contractors for transportation services at ports          |              |                        |                  |
| ■ Developed and reviewed numerous activity and data models for DOD personnel and transportation domains                                   |              |                        |                  |

## AWARDS AND MEMBERSHIPS

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1992	Phi Beta Kappa Honor Society
1996-present	Member of American Association for Artificial Intelligence

## PUBLICATIONS

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1. Heflin, J. and Hendler, J. A Portrait of the Semantic Web in Action. *IEEE Intelligent Systems*. Forthcoming.
2. Heflin, J. and Hendler, J. Semantic Interoperability on the Web. *Proceedings of Extreme Markup Languages 2000*. Graphic Communications Association, Alexandria, VA, 2000. pp. 111-120.
3. Heflin, J. and Hendler, J. Dynamic Ontologies on the Web. *Proceedings of the Seventeenth National Conference on Artificial Intelligence (AAAI-2000)*. AAAI/MIT Press, Menlo Park, CA, 2000. pp. 443-449.
4. Heflin, J. and Hendler, J. Searching the Web with SHOE. *Artificial Intelligence for Web Search, Papers from the AAAI Workshop, WS-00-01*. AAAI Press, Menlo Park, CA, 2000. pp. 35-40.
5. Heflin, J., Hendler, J., and Luke, S. SHOE: A Knowledge Representation Language for Internet Applications. Technical Report CS-TR-4078 (UMIACS TR-99-71), Dept. of Computer Science, University of Maryland at College Park, 1999.
6. Heflin, J., Hendler, J., and Luke, S. Coping with Changing Ontologies in a Distributed Environment. *Ontology Management, Papers from the AAAI Workshop, WS-99-13*. AAAI Press, Menlo Park, CA, 1999. pp. 74-79.
7. Heflin, J., Hendler, J., and Luke, S. Applying Ontology to the Web: A Case Study. In: J. Mira, J. Sanchez-Andres (Eds.), *International Work-Conference on Artificial and Natural Neural Networks, IWANN'99, Proceedings, Volume II*. Springer, Berlin, 1999. pp. 715-724.
8. Heflin, J., Hendler, J., and Luke, S. Reading Between the Lines: Using SHOE to Discover Implicit Knowledge from the Web. *AI and Information Integration, Papers from the 1998 Workshop, WS-98-14*. AAAI Press, Menlo Park, CA, 1998. pp. 51-57.

## SUBMITTED PUBLICATIONS

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9. Heflin, J. Reasoning with Semantic Web Ontologies. Submitted to *Seventeenth International Joint Conference on Artificial Intelligence (IJCAI 2001)*.
10. Heflin, J., Hendler, J., and Luke, S. SHOE: A Prototype Language for the Semantic Web. Submitted to *Electronic Transactions on Artificial Intelligence (ETAI)*.

#### INVITED PRESENTATIONS

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November 2000	University of Maryland, Baltimore County <i>SHOE: A Prototype Language for the Semantic Web</i>	Baltimore, MD
August 2000	DAML Kickoff Meeting <i>SHOE: Ontology on the Web</i>	Boston, MA
June 2000	Aerospace Corporation <i>SHOE: Knowledge Representation on the Internet</i>	Chantilly, VA
March 2000	Dagstuhl Seminar: Semantics for the Web <i>SHOE: Knowledge Representation on the Internet</i>	Wadern, Germany
September 1999	Stanford Knowledge on the Web Seminar <i>SHOE: Knowledge Representation on the Internet</i>	Palo Alto, CA

#### PROFESSIONAL SERVICE

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2001	Reviewer Electronic Transactions on Artificial Intelligence (ETAI)
2001	Reviewer IEEE Intelligent Systems
2000	Member Joint US/EU Ad Hoc Agent Markup Language Committee
2000	Reviewer Data and Knowledge Engineering Journal
1999	Reviewer RIAO 2000 Content-Based Multimedia Access
1999	Reviewer EDBT 2000 - 7 <sup>th</sup> Intl. Conf. on Extending Database Technology