

John DeSanto

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Qualifications

- Over 15 years experience in information technology
- Over 5 years in leadership roles
- Product design, management, and implementation
- Ontology and knowledge base development
- Natural language processing, information extraction
- Private and public teaching experience
- Graduate degrees in mathematics and philosophy

Technology

- Lisp, Python, C
 - Semantic web standards: OWL, RDFS, RDF, SWRL, SPARQL
 - CycL, Cyc, OpenCyc, SUMO
 - Jena, Allegrograph, TopBraid
 - Inventor or co-inventor on nine pending patents
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Employment History

Senior Semantic Architect

July 2008 – October 2008

Searchme - San Francisco, CA

- Responsible for improving the category structure underlying Searchme's vertical search
- Developed methods for improving the ontology, name recognition, and query analysis

Senior Ontologist

August 2007 – July 2008

NASA / Intrinsic - Mountain View, California

- Developed ontology models for semantic web applications within for NASA's data systems
- Responsible for creating and improving ontologies for a broad range of NASA disciplines

Search Project Manager (contract)

May 2007 – July 2007

Deloitte - San Francisco, California

- Managed and developed strategies for improving SharePoint search for Deloitte Consulting
- Provided expertise on search technology and metadata strategies

Consultant

December 2006 – July 2008

Jiles Inc. - San Francisco/Los Angeles, CA

- Responsible for maintaining and improving the statistical parser, query templates, and query categorization
- Devised methods for utilizing structured semantic data in the Jiles system, including connections to Freebase and Open Calais.

Director of Research and Development

August 2004 - October 2006

Kozoru - Overland Park, Kansas

- Led Kozoru's research and development efforts
- Successfully created and released a customizable chat-based search product, BYOMS (build your own mobile search)
- Designed and implemented a natural language parser, answer ranking algorithms, source acquisition algorithms, and regression code

- Designed and implemented distributed semantic question/answer technology
- Managed junior developers
- Contributed to the newLISP open source project

Ontologist

October 2002 - July 2004

Unicru - San Francisco, California

- Led development of the SmartMatch ontology and knowledge base.
- Developed ontology content and functional requirements for the knowledge base
- Supervised knowledge base content editors

Knowledge Architect

December 2001 - July 2002

Kanisa - Cupertino, California

- Developed and maintained taxonomies and logical rules for Kanisa's CRM platform
- Analyzed query patterns and optimized retrieval results to improve search satisfaction
- Technical liaison for the Apple Support project

Ontologist, Project Manager

September 1998 - March 2001

Cycorp - Austin, Texas

- Created and tested new areas of the ontology for the Cyc knowledge base.
- Designed the ontology framework for representing network and software vulnerabilities
- Developed ontologies for CycSecure, DARPA High Performance Knowledge Base (HPKB) Year 2, Rapid Knowledge Formation (RKF), Hotbot/Lycos.
- Supervised four ontologists and programmers and managed project KB development
- Oversaw all subject matter experts, reported to DARPA program manager, and presented at scheduled program meetings
- Assisted in locating and applying for new sources of funding, primarily through DARPA, including Cycorp's DAML proposal (Spring 2001)

Education

- **The Johns Hopkins University**
M.A. Philosophy, 1995; Ph.D. candidate 1995-98
- **The University of Colorado**
M.A. Mathematics, 1991
- **The University of Michigan**
B.S. Mathematics and Philosophy, 1989

Publications

- Dan Crow and John DeSanto, [A Hybrid Approach to Concept Extraction and Recognition-based Matching in the Domain of Human Resources](#). 16th. IEEE International Conference on Tools with Artificial Intelligence (ICTAI-04), Boca Raton 2004.
- Martin Quiroga, John DeSanto and John Flowers, ["Natural language based search engine and methods of use therefore"](#), U.S Patent #7,447,683.