
Dr. Youyong Zou

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Education: University of Maryland, Baltimore County, Maryland 07/1999—05/2004

Ph.D. Degree in Computer Science

Nankai University, Tianjin, P.R.China 09/1994—07/1997

Master Degree in Computer Science.

Nankai University, Tianjin, P.R.China 09/1990—07/1994

Bachelor Degree in Computer Science.

Highlight:

- ❖ Experienced in both corporate and academic research and development.
 - ❖ Advanced Experience with Intelligent Agent, Semantic Web, Security and Web Services.
 - ❖ Actively involved in promoting Semantic Web technology (DAML, OWL) since its reception (4 years). An active member within FIPA and Agentcities
 - ❖ Full Software Life-Cycle Experience including Requirements Definition, Design, Development, Testing, Documentation, Deployment, Customer Training and Tech-Support
 - ❖ Team Leader for Many Projects
 - ❖ Highly Proficient in C/C++, J2SE, J2EE, Prolog, PHP, SQL, XML, WSDL, RDF and OWL
 - ❖ Experienced with development tools: Ant, Maven, JUnit, Xdoclet, Eclipse, CVS
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Corporate Employment:

ImageMatters LLC, Leesburg, VA, Senior Software Engineer, 05/2004-Now

A key member of the product development team for userSmarts, specializing in semantic middleware technology. Develop Spatial Data Infrastructure by implementing the OGC standards and applying Semantic Web technologies to Geospatial information. Coding in J2EE, Xdoclet, Jboss, Oracle

Fujitsu Lab of America, Sunnyvale, CA, Summer Internship, 04/2002-09/2002

Agentcities Project (<http://www.agentcities.net>).

Research of running software agent at the dynamic and open environment and using semantic web language in the service composition. Developed San Francisco agentcity platform. Written in April, Java, DAML.

**Syllogism Company, Rockville, MD, Summer Internship, 06/2001-09/2001
NIST Semantic Resolution Project.**

Research of resolving semantic difference for multi-agent systems (MAS) in electronic commerce. Ontologies are represented as frame-like structures based on DAML language. The resolution is viewed as a reasoning process, involving approximation and default reasoning. Written in Java, XSB, DAML.

**National Research Center of Intelligent Computer, (<http://www.ncic.ac.cn>)
Beijing , P.R.China, **Guest Researcher: 05/1995-07/1997**
Software Engineer: 07/1997-05/1999**

As project manager, designed and implemented the “Dawning Dual-Host High Available System”, which supports hot standby, multiple backup and parallel mode. Running on Solaris, AIX and Windows system. Also provided substantial support during hardware testing and integration, including the development of test software and interface to Oracle application. Written in C, Motif, SQL, Java.

Designed and implemented the Yard Information System for Intelligent Railway Information Management system. Written in Oracle SQL.

Research of high availability in Cluster of Workstations. Developed high available cluster system for “Dawning Cluster System” (128-node cluster of AIX workstations). Written in C, Motif, Java.

Investigated task migrate of parallel application. Developed Services Control Point for Chinese Intelligent Communication Network (CIN-04). Written in C, Informix.

Academic Research:

**Lab of Advanced Information Technology (<http://www.csee.umbc.edu/lait/>)
UMBC, Maryland, **Research Assistant, 07/1999-Present****

IBM CIIMPLEX Project (<http://ciimplex.bocaraton.ibm.com/>). Research of technology to enable the integration of manufacturing applications in a multi-company supply chain planning and execution environment. Developed and implemented a practical security framework for multi-enterprise transactions and interactions based on X.509v3 and S/MIME. Written in Java.

Trading Agent Competition (<http://tac.eecs.umich.edu/>). Research of Multi-Agent System in electronic markets environment. Developed the travel

agent UMBCTAC to compete with the agents developed by other research groups in an auction market, with the goal of assembling a number of travel packages to maximize a given objective. Came out 4th in the Trading Agent Competition (TAC) final, held at Boston in July 2000. Written in C++.

DARPA DAML Project (<http://www.daml.org>). Research of DARPA Agent Markup Language toward the goal of creating a language and tools to facilitate the Semantic Web. Working on OWL Inference Engine, ontology mapping, and integration of FIPA agent with Semantic Web. Written in Java, XSB, OWL, OWL-S.

TAGA Project (<http://taga.umbc.edu>). As team leader, designed the dynamic travel market game running in the open Agentcities environment. TAGA is intended as a platform for research in multi-agent systems, the semantic web and automated trading in dynamic markets. TAGA won the “**Best Student Entry Award**” in Agentcity Technology Competition 2003. The agent platforms are JADE and AAP. Written in Java, XSB, OWL, OWL-S, WSDL, JSP, PHP, MySQL.

F-OWL Project (<http://fowl.sourceforge.net>). As project manager, designed and implemented a F-Logic based OWL inference engine. The test results were published in W3C OWL Test Case document. Written in XSB, Flora-2, Java.

Selected Publications:

- “F-OWL: an Inference Engine for Semantic Web, FAABS III 2004, Greenbelt, MD.
- “Using Semantic Web technology in Multi-Agent Systems: A case study in the TAGA trading agent environment”, ICEC 2003, Pittsburgh, PA.
- “TAGA: Trading Agent Competition in Agentcities”, IJCAI TAC Workshop 2003, Acapulco, MX.
- “TAGA: Travel Market Framework in Agentcities”, IJCAI ISD 2003, Acapulco, MX.
- “Implementing Agent-based Web Services”, AAMAS 2003, Melbourne, Australia.
- “Semantic Resolution for E-Commerce”, AAMAS, 2002, Bologna, Italy.
- “Agent Communication In DAML World”, First GSFC/JPL Workshop on RAC, 2002, NASA Goddard Space Flight Center, MD.

Please visit <http://www.cs.umbc.edu/~yzou1/> for full list of published papers.

Status: US Permanent Resident (Green Card holder).

Reference: available upon request.