

DAVID GOLDSCHMIDT, PH.D.

	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE	2006-present
	The College of Saint Rose, Albany, New York	
	ADJUNCT PROFESSOR, COMPUTER SCIENCE DEPARTMENT	2007-present
	Rensselaer Polytechnic Institute, Troy, New York	
EDUCATION	RENSELAEER POLYTECHNIC INSTITUTE, TROY, NEW YORK	1990-2005
	Computer Science, B.S. 1994 <i>cum laude</i> , M.S. 1998, Ph.D. 2005	
COMPUTING SKILLS	LANGUAGES: Java, JavaScript, PHP, XML, Perl, C, C++, SQL, XHTML/CSS, Python DATABASE APPLICATIONS: Oracle RDBMS, SQLServer, MySQL, TOAD PLATFORMS: Unix (AIX, HP/UX, BSD, Linux, Solaris), Windows (NT/2k/XP)	
TEACHING EXPERIENCE	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE	2006-present
	The College of Saint Rose, Albany, New York	
	<ul style="list-style-type: none">Instructing students to program in C++, C, Java, Scheme, Prolog, and Python in such courses as <i>Programming Languages</i>, <i>Operating Systems</i>, and <i>Artificial Intelligence</i>	
	ADJUNCT PROFESSOR, COMPUTER SCIENCE DEPARTMENT	2007-present
	Rensselaer Polytechnic Institute, Troy, New York	
	<ul style="list-style-type: none">Teaching conceptual and programming skills in such courses as <i>Programming in Java</i>, <i>Programming Languages</i>, and <i>Operating Systems</i>	
	ADJUNCT PROFESSOR, NEW YORK STATE EDUCATION DEPARTMENT	2007-present
	New York State Education Department, Albany, New York	
	<ul style="list-style-type: none">Teaching developers new technologies, including Java, XML, JavaScript, and CSS	
	ADJUNCT LECTURER, COMPUTER SCIENCE DEPARTMENT	2002-2003
	ADJUNCT LECTURER, ELECTRICAL & COMPUTER SYSTEMS ENGINEERING	2003
	TEACHING ASSISTANT, COMPUTER SCIENCE DEPARTMENT	1994-1998
	Rensselaer Polytechnic Institute, Troy, New York	
	<ul style="list-style-type: none">Instructed graduating seniors in developing software engineering lifecycle skills and techniques in the writing-intensive <i>Software Design & Documentation</i> courseInstructed graduates in measuring personal software engineering skills via Watts Humphrey's <i>Personal Software Process</i> in the <i>Software Engineering II</i> courseTaught students to program in C, C++ (STL), Fortran, and MATLAB in such courses as <i>Computer Science I</i>, <i>Computer Science II</i>, <i>Data Structures</i>, and <i>Numerical Computing</i>	
RESEARCH AND PUBLICATIONS	DOCTORAL DISSERTATION: SEMANTIC WEB SEARCH ENGINE	2002-2005
	<i>Advisor: Mukkai Krishnamoorthy, Associate Professor, Rensselaer Polytechnic Institute</i>	
	<ul style="list-style-type: none">Researched, designed, and implemented a viable search engine prototype for the Semantic Web using the Jena Platform and Java Graph BaseDesigned and implemented the <i>Google CruciVerbalist</i>, a Java application that solves crossword puzzles using artificial intelligence techniques and Google	

MASTERS PROJECT: JAVA GRAPH BASE

1997-1998

Advisor: Mukkai Krishnamoorthy, Associate Professor, Rensselaer Polytechnic Institute

- Designed, developed, and documented a generic STL-like *Java Graph* package

PUBLICATIONS

- Goldschmidt, D. and Krishnamoorthy, M., 2007. Comparing keyword search to semantic search: a case study in solving crossword puzzles using the Google API. *Software: Practice and Experience*, vol. 38 issue 4, pp. 417-445
- *A Comparison of Keyword-Based and Semantics-Based Searching*. Doc. Dissertation, 2005
- Goldschmidt, D. and Krishnamoorthy, M., 2005. Architecting a Semantic Web Search Engine. Pending publication by the *American Association of Artificial Intelligence*
- Goldschmidt, D. and Krishnamoorthy, M., 2004. Solving Crossword Puzzles via the Google API. In *Proceedings of the IADIS International Conference, WWW/Internet 2004*. Madrid, Spain, pp. 382-389

PROFESSIONAL
EXPERIENCE**OWNER, G-REVISIONS**

2006-present

- Provide professional writing, editing, and web design services internationally
- Design and implement professional interactive web sites
- Produce technical documents in print and online for commercial and academic use

SENIOR SOFTWARE ENGINEER, SEARCH ENGINE TEAM

2005-2006

GlobalSpec, Inc., Troy, New York

- Implemented Java enhancements to existing vertical search infrastructure
- Architected next-generation vertical search engine to address existing limitations of scalability, performance, and redundancy

BUSINESS SYSTEMS ANALYST, DATA WAREHOUSE GROUP

2001-2005

Rensselaer Polytechnic Institute, Troy, New York

- Defined and implemented baseline architecture for Rensselaer's data warehouse, including Oracle RDBMS, Brio/Hyperion, and Apache components on AIX
- Designed and implemented executive dashboard applications that present information from the data warehouse to campus executives and faculty in support of high-level decision-making in areas of research, admissions, Institute finance, position control and labor, and student enrollment

DEVELOPMENT TEAM LEADER, NETWORK MANAGEMENT SYSTEMS

1998-2001

PSINet, Inc., Troy, New York

- Led development team within the core Network Engineering division
- Engineered a device configuration management system that controlled 1000+ dial-up machines and layer 2 switches across global network infrastructure
- Architected a distributed network utilization data collection system (using SNMP) to obtain traffic data on layer 2 and layer 3 network devices; integrated data into SAS data warehouse for capacity planning and billing
- Collaborated with Cisco Systems to design and develop a vendor-independent layer 2 management system using CORBA and Java; successfully managed global rollout of production system

SENIOR SOFTWARE ENGINEER/SOFTWARE PROJECT MANAGER

1994-1998

IFS International, Inc., Troy, New York

- Led multiple teams in C and Oracle (SQL) development projects, full-scale software system documentation projects, and user-interface design and development tasks