

Education

- **Arizona State University** Tempe, AZ
(In Progress) Doctor of Philosophy in Computer Science Aug. 2010 – Present
 - Advisor: Pat Langley, PhD
 - Research project: Understanding and Aiding Problem Formulation in Creative Conceptual Design (funded by NSF)
- **Texas Tech University** Lubbock, TX
Master of Science in Computer Science Jul. 2009 – Aug. 2010
 - Thesis title: *A Case Study of Scheduling in Answer Set Programming*
 - Committee: Richard Watson, PhD (Chair); Michael Gelfond, PhD; Yuan-lin Zhang, PhD
- **Texas Tech University** Lubbock, TX
Bachelor of Science in Computer Science Aug. 2006 – Dec. 2009
 - Minors: Mathematics and Spanish

Experience

- **Arizona State University** Tempe, AZ
Teaching Assistanceship Aug. 2010 – Present
 - Taught four labs of CSE100 (Introduction to Programming in C++) for 83 students in total
 - Wrote and graded assignments
- **Department of Biological Sciences, Texas Tech University** Lubbock, TX
IT Support Technician Jul. 2009 – Aug. 2010
 - Maintained and updated DBS website
 - Created categorized, searchable database of departmental research
 - Solved general technical support issues involving a wide range of operating systems and hardware
- **PepsiCo Business Solutions Group** Plano, TX
Systems Engineer, Software Developer Aug. 2008 – Jul. 2009
 - Worked with a variety of architectures and systems, primarily focusing on database management operations between DB2 SQL on UNIX servers and COBOL mainframes
 - Wrote SQL queries to replace outdated COBOL programs and jobs
 - Developed database visualization tool using Job Control Language (JCL) to display datasets and jobs associated with job flows
 - Drafted 200+ pages of documentation for COBOL mainframe tables, jobs, and datasets
- **Advancement Services, Texas Tech University** Lubbock, TX
Student Assistant Aug. 2007 – Apr. 2008
 - Wrote relatively complex SQL queries to generate alumni/donor reports and mailing lists
 - Developed custom report request creation website in PHP
- **Venture Research** Plano, TX
Systems Engineer Dec. 2004 – Aug. 2007
 - Worked with a variety of radio frequency identification (RFID) applications, from a variety of perspectives
 - Worked as part of a team to design, build, and implement various custom RFID solutions
 - Designed, built hardware and software, tested, and installed RFID demonstration system named SmartShelf for Kraft Foods International
 - Wrote byte-code drivers over USB, network and RS-232 for RFID readers in VB.NET and C#.NET

Awards

Arizona State University Graduate Fellowship Recipient 2010

Texas Tech University Presidential Scholarship Recipient 2006

International Baccalaureate Diploma (Garland High School, Garland, Texas) 2006

Texas Aerospace Scholar (NASA, Houston, Texas) 2006

Skills

Programming Languages: Python, \LaTeX , C/C++, SQL, (X)HTML, CSS, Java, Javascript, JQuery, PHP, XML, Django, DOT (GraphViz), Prolog, Answer Set Prolog, C+

Languages: English (fluent), Spanish (spoken: good, written: fluent)

Operating Systems: Mac OS/X, Windows (all versions), Linux, Solaris, UNIX, most mobile operating systems (iOS, Android, BlackBerry)

Software: \LaTeX , Emacs, TextMate, MS Visual Studio, Eclipse, MS Office Suite (all versions), GraphViz, Bourne-Again Shell

Miscellaneous: strong verbal and written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, good team skills, graphic design

Interests

Research: knowledge representation, logic programming, answer set programming, artificial intelligence, cognitive psychology, human problem-solving, intuitive reasoning, robotics, automated software development, machine learning, computational intelligence

Computers: *NIX systems (particularly Debian and Ubuntu); contributed to a number of open-source software projects, including TextMate bundles, Django documentation, and several small utilities hosted on Google Code

Professional Organizations: Member, Association for Computing Machinery, 2007 – Present