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EDUCATION

Ph.D., Computer Science

The University of Chicago, Chicago, IL, 2008

Dissertation: “[Reflective Techniques in Extensible Languages](#)”

Advisor: [John H. Reppy](#)

M.S., Computer Science

The University of Chicago, Chicago, IL, 2004

Thesis: “[Grammar Based Unit Testing for Parsers](#)”

Advisor: [David Beazley](#)

B.S., Computer Engineering

Texas A&M University, College Station, TX, 1996

EXPERIENCE

University of Chicago, Computer Science Department (August 2008 – Present)

Chicago, Illinois

Postdoctoral Researcher - Researching, managing releases of, and developing for the SML/NJ compiler. Currently designing and implementing an extensible front-end for SML/NJ, applying ideas from dissertation work and related technologies.

University of Chicago, Computer Science Department (September 2002 - July 2008)

Chicago, Illinois

Teaching/Research Assistant - Responsible for grading, course development, lab instruction, and research, based on quarterly assignments.

Econnectix Corporation (May 2005 - November 2007)

Chicago, Illinois

Software Architect - Led a small development team (2-4 people) through the product prototyping and implementation phases of a storage appliance front-end. Personally responsible for process development, the product front-end requirements and architecture, overseeing the implementation effort, and development of an automated functional testing framework.

GrammaTech (June 2005 - September 2005)

Ithaca, New York

Summer Graduate Intern - Assisted with research contract fulfillment. Personal contributions included development of proof of concept tests for a program shepherding system, and drafting research status reports.

University of Chicago, Computer Science Department (June 2004 - August 2004)

Chicago, Illinois

Instructor - Prepared and taught an introductory programming course for the professional masters program. Developed and delivered lectures, homework assignments, and exams.

Lucent Technologies (April 2000 - September 2002)

Dallas, Texas

Member of Technical Staff - Responsible for design and development of applications for a voice mail networking platform.

Lucent Technologies via KingSearch Solutions (April 1999 - April 2000)

Dallas, Texas

Contracting Member of Technical Staff - Responsible for unit test development, automation, and ensuring the overall software quality of a voice mail networking platform.

PLATINUM Technology (January 1999 - February 1999)

Houston, Texas

Product Developer - Responsible for testing and implementing of components for round-trip engineering using the Unified Modeling Language (UML.)

United Space Alliance (January 1997 - January 1999)

Houston, Texas

Engineer I - Responsible for developing and maintaining software for shuttle flight dynamics design.

PUBLICATIONS

Jonathan Riehl. Implementing the MyFEM Embedded Domain-specific Language. In *Second International Workshop on Domain-Specific Program Development (DSPD'08)*. Nashville, TN, October 2008.

Jonathan Riehl. Assimilating MetaBorg: Embedding language tools in languages. In *Proceedings of the Fifth International Conference on Generative Programming and Component Engineering (GPCE'06)*. Vancouver, Canada, October 2006.

Jonathan Riehl. Digitizing more than organizational DNA. *First Monday*. (11) 6: June 2006.

Jonathan Riehl. PyFront: Conversion of Python to C Extension Modules. In *Proceedings of the Seventh International Python Conference*. Houston, TX, November 1998.

REFERENCES

Excellent references available upon request.