Andrew Weinrich

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EMPLOYMENT

Spencer Stuart, Chicago IL
Data Platform Architect — June 2008 to Present
- Team lead responsible for database platform, physical/logical data model, and data access infrastructure
- Redesigned and implemented data access and search systems for proprietary global applications
- Replaced stored-procedure data access with model-driven service architecture, reducing codebase size by 80%
- Worked with functional leads, stakeholders, and management to develop and document data models
- Developed automated document generation system to reduce preparation workload by 70%

Data Analyst — October 2005 to August 2006
- Designed data models and back-end architecture for new applications
- Developed data-mining programs and workflows
- Constructed query tools and performed data analysis for business users

University of Wisconsin–Madison, Department of Computer Sciences, Madison WI
Teaching Assistant / Research Assistant — September 2006 to May 2008
- Lecturer for Computer Science 302: Introduction to Computer Programming
- Performed research in programming languages, type theory, database systems
- Graduate student under Professor Ben Liblit (http://pages.cs.wisc.edu/~liblit)
- Research assistant for the Condor grid computing project (http://www.cs.wisc.edu/condor)

Deloitte Consulting, Chicago IL
Systems Analyst — July 2003 to September 2005
- Installed and configured application and server environments for Oracle, Lawson, and PeopleSoft ERP systems
- Designed and built security infrastructure for business-to-business communications
- Designed and performed data conversions from legacy systems to new ERP platforms
- Created custom reports, database applications, and database queries for functional team leads

Northwestern University Department of Computer Science, Evanston IL
Undergraduate Researcher — January 2001 to June 2003
- Designed and implemented web interface and service-oriented architecture for NSF-funded grid research project
- Developed system to simulate timing in electrical circuits for Motorola-funded research project

EXPERIENCE

- Database and Application Architecture (Object-oriented design, Data access, SOA)
- Database Systems (Oracle, Microsoft SQL Server, Postgres, PL/SQL, Transact-SQL, Reporting)
- Object-Oriented Design and Programming (C++, Java, Objective-C, C#, Smalltalk, Cocoa, .NET)
- Type theory, compilers, code optimization, and language design
- Unix development (Linux, Mac OS X, AIX, Solaris, iPhone)
- Scripting Languages (Perl, Python, PHP, Bash, F-Script, Ruby)
- Automated document generation, typography, and the LaTeX typesetting system

RESEARCH

Primary interests: Data modeling and data mining, programming languages and compilers, type systems

Projects and papers (available for download at http://pages.cs.wisc.edu/~weinrich):

FSClass	Implementation of prototype-based objects and classes in the F-Script language
fscript	Command-line F-Script interpreter
Flint	Experimental type-checker for scripting language programs
Graffiti	Proposed system for predicting web page tags

EDUCATION

Master of Science — Computer Sciences	University of Wisconsin–Madison
Bachelor of Science — Computer Science	Northwestern University