

DAVID C. HOOGE, JR.

220 Picadilly Square, Apt B5
Athens, GA 30605

706-224-3010
dchooge@gmail.com

SYNOPSIS

Programmer with a Master of Science in Computer Science from the University of Georgia. Experienced in a large number of computer languages including, but not limited to, C/C++, Ruby, Scheme/LISP, and Java. Accomplished in many research areas including a heavy focus on Semantic Web technologies, database creation and maintenance, and program optimization. Most recently worked for Semagix, Inc. a company that provides banking solutions that allow for the automated location of money laundering and terrorist rings as well as database storage of threat information.

PROFESSIONAL EXPERIENCE

SEMAGIX, INC. Athens, GA

2005 - Present

Semagix focuses on extracting usable knowledge from extremely large sets of data, this is done through information and relationship exploration. The prime example of this, as well as the major product of Semagix, is financial software that seeks to locate money laundering rings.

(www.semagix.com)

Programming Intern

- Created database support for a number of systems including MySQL, and Oracle.
- Developed risk-management applications using Java and Semantic Web methodologies.
- Benchmarked and overviewed emergent storage and graphing programs such as Sesame, Jena, ThinkMap, and TouchGraph.
- Developed translation software to convert to and from database storage to industry standard RDF file format.
- Worked Quality Assurance to ensure validity of all programs, during this time sought out and repaired long-standing bugs in many of the major company applications.

OPTASOFT, INC. Baton Rouge, LA

2003

Optasoft's goal is to streamline the building inspection process to reduce the possibility for error. This is done through the transformation of thousands of pages of building code into a series of worksheets. With worksheet completion an inspector can immediately see where a building meets codes and where it falls short. (www.optasoft.com)

Programmer

- Utilized Borland's C++ Builder to update the look and feel as well as the functionality of the Commercial Building Inspector software.
- Created inspection components that clearly represented the building code regulations as listed in: 2000/2003 International Building Code.
- Communicated closely with several building inspectors to ensure all modules completely matched current international codes.

BIRMINGHAM-SOUTHERN COLLEGE Birmingham, AL

2002-2003

Birmingham-Southern is a small liberal -arts college focused not only on lending students a mastery of their chosen field but also upon ensuring that the student can foster the same understanding and love of knowledge in others. (www.bsc.edu)

Teacher's Assistant

- Prepared and presented lesson material ranging from simple Linux commands to the creation of a complete Java Applet.
- Oversaw and assisted students with programming lab work.
- Created lesson plans and schedules that guided students through the basics of both computer literacy and the fundamentals of programming.

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EDUCATION

Masters of Science: Computer Science University of Georgia 2006

- Research focused primarily methods of combining Semantic Web techniques and Natural Language Parsing and effective methods of Database storage of this information.
- Created a method of indexing and retrieving information based on entities and relationships rather than hash value. This allows for storage that closely mirrors the structure of grammar.
- Developed a legal application that allowed one to search for a given concept or document; the system then presents the user with information regarding the query in addition to highly related information. Individual legal documents could then be displayed in a tree structure which tracked all trial developments of a given case in order to give the viewer a clear overview of the legal reasoning behind the ruling. Project available for download at: <http://arches.uga.edu/~jhassell/project/description.html>
- Worked closely with Westlaw to ensure the information used in and returned by the legal project accurately represented a lawyer's own understanding of court rulings. Westlaw subsequently altered several of their own search methods as a result of the project findings.

Bachelors of Science: Computer Science Birmingham-Southern College 2003

- Researched the theoretics of Computer Science focusing on compilers and databases.
- Created a left recursive Java compiler that would translate simple Java programs to machine code.
- Competed in and helped organize several programming tournaments with the school's branch of the ACM.

COMPUTER LANGUAGES AND SKILLS

- Fluent in Java, C/C++, Ruby, and Assembly Language among others.
- Extremely adept at developing and maintaining database storage, have worked with a number of systems including PostgreSQL, Oracle, MySQL, and Cloudscape.
- Knowledgeable in a large number of computer languages including: Smalltalk, Visual Basic, and Scheme/Lisp.
- Experienced using Eclipse, Netbeans, Emacs, and Borland's Builder development environments.
- Developed and supported nearly all modern operating systems including Windows, Linux, and Mac.