

Experience

- **iNovex Information Systems** Hanover, MD
Software Developer *July 2012 - Present*
 - Semantic Data to Accumulo Connector
 - * Integrated structured, semi-structured, and unstructured data using W3C graph data standards
 - * Used Java to write graph data into Accumulo
 - * Dynamically applied provenance information to data using PROVO-O
 - * Used Agile software development principles
 - Hive Extractor (Cambridge Semantics Consultant)
 - * Extracted metadata from Hive using creativity and basic JDBC driver
 - * Enhanced existing relational database extractor to work with Hive
 - Web Development and Maintenance
 - * Created basic web page using HTML and CSS
 - * Administered Apache Web Server with appropriate Linux file system and SELinux permissions
 - * Setup reverse proxy to provide security and appropriate redirection for Lab demos
 - Entity Extraction from Unstructured Data
 - * Implemented OpenCalais to extract entity information from unstructured PDF documents
 - * Integrated unstructured and structured data using W3C semantic web standards
 - * Created analyst dashboards using HTML, CSS, and Javascript
 - Protein Ontology Building (Cambridge Semantics Consultant)
 - * Worked with scientists from Merck Pharmaceuticals to create an Ontology to describe proteins
 - * Modeled the way proteins, genes, and drugs affect one another in unified ontology
- **iNovex Information Systems** Annapolis, MD
Intern *May 2011 - Aug. 2011*
 - Linked public databases with information on registered sex offenders
 - Developed Semantic Web Technology built to W3C specifications
 - Converted data stored in MySQL databases to linked data (RDF)
 - Built ontology for sex offenders that extends existing ontologies
 - Created and connected several SPARQL endpoints

Education

- **Connecticut College** New London, CT
B.A. Major Computer Science, Minor Economics (GPA 3.28) *Aug. 2008 - May. 2012*
 - Senior Research: Forecasting Economic Volatility with Genetic Algorithms
 - Relevant Courses: Computational Intelligence, Artificial Intelligence, Networks, Algorithms, Data Structures, Computer Organization, Topics in Software Development
 - **University of Nottingham** Nottingham, UK
Study Abroad *Sept. 2010 - Jan. 2011*
 - Relevant Courses: Operations Research and Optimization, Knowledge Representation and Reasoning, Graphical User Interfaces, Software Engineering Methodologies, Introduction to Formal Reasoning
- Oracle Certified Associate, Java SE 7 Programmer**

School Projects

- **Various AI Algorithms**

Connecticut College
Sept. 2011 - Dec. 2011

- *Artificial Intelligence, COM 316*

- Built goal finding robots that used popular search techniques
- Modeled propositional and first order logic applied to a search space
- Learned other important topics including learning and connectionist systems

- **Visual Data Structures**

Jan. 2011 - May 2011

- *Algorithms, COM 304*

- Created GUI representations of a Binomial Heap and a Disjoint Set
- Used Java to program Model-View-Controller architecture

- **Web Browser**

University of Nottingham

- *Graphical User Interfaces, G52GUI*

Sept. 2010 - Jan 2011

- Developed simple web browser with Swing Java
- Incorporated Agile development methodologies

Skills

Languages: Java, Python, Perl, SQL, Scheme

Operating Systems: Linux, Mac OS X, UNIX, Windows XP/Vista/7, Solaris

Applications: Eclipse, Maven, Subversion, Git, Scheme Widget Library, Microsoft Excel