

Summary

I am a software developer whose skills and interests lie at the intersection between Semantic Web and Big Data. For over a year I have worked for iNovex Information Systems on the Independent Research and Development program. On occasion, I will provide consulting services to our partner Cambridge Semantics, who provide enterprise level Semantic Web products to commercial customers.

Experience

- **Accumulo Data Integration Prototype** iNovex Information Systems
Software Developer August 2013 - October 2013
 - Handled a variety of data in large volumes by integrating data before it was written to Accumulo, which improved data retrieval at the application layer
 - Dynamically applied provenance information based on the PROV-O provenance ontology to all data headed for Accumulo, which provided lineage to all data read from Accumulo
 - Integrated structured, semi-structured, and unstructured data using W3C Semantic Web standards, which yielded inherent data layer linkages between like or similar entities from disparate data sets
- **Hive Metadata Extractor** Cambridge Semantics
Big Data Consultant June 2013 - July 2013
 - Provided metadata to existing query completion and database schema facilities by extracting metadata from Hive using Java and JDBC
 - Improved customer's existing product by adding a feature to allow ingestion of data from Hive data warehouse
- **Economic Volatility Genetic Algorithm** Connecticut College
Student January 2012 - May 2012
 - Forecasted economic volatility using a genetic algorithm, which improved on the traditional technique of regression analysis
 - Performed interdisciplinary research under professors Gary Parker (Computer Science) and Purba Mukerji (Economics)

Education

- **Connecticut College** New London, CT
B.A. Major Computer Science, Minor Economics (GPA 3.28) Aug. 2008 - May. 2012
 - 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

Skills

Languages: Experience with Java (Proficient), Bash (Competent), SPARQL (Competent), SQL (Competent), Python (Prior Experience), Javascript (Prior Experience) and Scheme (Prior Experience)

Certifications: Oracle Certified Associate, Java SE 7 Programmer

Misc: Experience with Git, Subversion, Maven, Ant, OSGI, Eclipse, Linux, and Windows