Baltimore, MD

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Summary

I am a software developer whose skills and interests lie at the intersection between Semantic Web and Big Data. For two years, I have worked for iNovex Information Systems on the Independent Research and Development program. I build prototype solutions that demonstrate the value of Semantic Web.

Relevant Experience

MatOnto Materials Science Framework

iNovex Information Systems

2014

- Software Developer
 - Developed REST controllers using Groovy on Grails that orchestrated CKAN data publishing
 - Leveraged TDD workflow using JUnit to build robust software solutions midst dynamic requirements
 - Built ontologies serialized in RDF to enable federated SPARQL queries across multiple data sources
 - Managed and counseled interns who built customer facing website using Twitter Bootstrap
 - Configured and managed system infrastructure using Openstack
 - ETL'd data from HTML into RDF using "pull" based streaming XML parser

Hive Metadata Extractor

iNovex Information Systems

Software Developer

2013

- Provided metadata to existing query completion and database schema facilities by extracting metadata from Hive using Java and JDBC
- Developed Hive metadata extractor to plug into existing big data storage systems, which enabled customer's product to interface with existing data systems

Semantic Web Integration Prototype

iNovex Information Systems

Software Developer

2012 - 2013

- Designed graph data system backed by Accumulo big data store to handle high volume integrated data, which led to increased data retrieval and application response time
- 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
- ETL'd data from XML, RDB, CSV, and Accumulo into RDF

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), Ruby (Competent), Groovy (Competent), HTML/CSS (Competent), jQuery (Competent), SPARQL (Competent), Javascript (Prior Experience), Bash (Prior Experience), Python (Prior Experience) and Scheme (Prior Experience)

Certifications: Oracle Certified Associate, Java SE 7 Programmer

Misc: Experience with Openstack, JUnit, Git, Subversion, Maven, Ant, OSGI, Intellij IDEA, Eclipse, and Linux