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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 a year and a half, 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*
    - 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

- **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
    - Developed Hive metadata extractor to plug into existing big data storage systems, which enabled customer's product to interface with existing data systems

- **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), HTML/CSS (Competent), jQuery (Competent), Javascript (Prior Experience), Bash (Prior Experience), SPARQL (Competent), SQL (Competent), Python (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