Brendan T. Heussler

Baltimore, MD

410.980.9672 (cell)

bheussler@gmail.com

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
  Software Developer — 2014
  - 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
  - Managed and counseled interns who built customer facing website using Twitter Bootstrap
  - ETL'd data from HTML into RDF using "pull" based 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), Javascript (Prior Experience), Bash (Prior Experience), Python (Prior Experience) and Scheme (Prior Experience)

Certifications: Oracle Certified Associate, Java SE 7 Programmer

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