

John J. Rivera

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Education

- may 2016 **BS, Computer Science**, *Rochester Institute of Technology*, Rochester, NY, Magna cum Laude.
Minor in Software Engineering
- dec 2013 **AS, Computer Science**, *Nassau Community College*, Garden City, NY, Magna cum Laude.
Phi Theta Kappa International Honor Society

Projects

- completed **Ralph**, *Center for Computational Research, the University at Buffalo*, library.
A simple SPARQL query library built on top of Guzzle, a object-oriented HTTP client library for PHP. Began as a component of the REDfly project; was broken off into its own library.
- ongoing **SubjectJ**, *Independent Study, Rochester Institute of Technology*, language.
A subject-oriented extension to the Java programming language. Developing an API for weaving Java class files by manipulating Java bytecode. Continued as a personal project after completion of the independent study.

Core Technical Skills

Proficient With

- languages Java, JavaScript, Haskell, PHP, SQL, Shell Scripting
- technologies AspectJ, Composer, Eclipse, GNU Make, Git, Maven, MySQL, PostgreSQL

Have Experience With

- languages Assembly, C/C++, C#, L^AT_EX, Lisp, Matlab, Prolog, Python, Swift
- technologies Amazon Web Services, Android SDK, Eucalyptus, Jenkins, Node.js, OpenCV, RDF, SPARQL
- frameworks AngularJS, Django, Express.js, ExtJS, Guice, Spring

Experience

- aug 2016 **Scientific Programmer**, *SUNY The University at Buffalo*, Buffalo, NY.
- to present Core developer on the Regulatory Element Database for Drosophila (REDfly) project.
- Scaled the application from only being able to calculate approximately 1,000 data records to being able to handle over 25,000 records.
 - Introduced build processes that enforces coding standards and reduced downtime for a complete deployment from an hour to less than five minutes.
 - Introduced use of RDF graphs and SPARQL queries to enable working directly with fly anatomy and staging ontologies.
- jan 2015 **Software Engineer Co-op**, *EagleDream Technologies*, Rochester, NY.
- to jul 2015 Worked with a team developing the EagleDream Health medical records analysis web application.
- Developed a module for extracting, transforming and loading (ETL) data from existing electronic health record systems for data warehousing using Java and Amazon Web Services.
 - Worked on the middleware and front end of the web application based on Java, Spring and AngularJS
- may 2014 **Undergraduate Research Assistant**, *Rochester Institute of Technology*, Rochester, NY.
- to aug 2014 Worked as a research assistant to a professor researching accessible technologies for the deaf.
- Researched methods of improving accessibility to deaf students in the classroom using technology.
 - Developed a prototype browser-based captioning system for the classroom using JavaScript, Python and Node.js.

Additional Education

- may 2010 **JD**, *University of California, Hastings College of the Law*, San Francisco, CA.
Intellectual Property Concentration, Pro Bono Society
- may 2007 **BA, History & Philosophy**, *Gallaudet University*, Washington, DC, Summa cum Laude.
Phi Alpha Pi Scholastic Honor Society

Additional Experience

- aug 2015 **Resident Advisor**, *Rochester Institute of Technology*, Rochester, NY.
- to may 2016 Resident advisor at the residence halls at the institute
- jan 2013 **Undergraduate Research Assistant**, *Nassau Community College*, Garden City, NY.
- to may 2013 Worked with students and faculty on the MouseTrap project with the GNOME Accessibility Team.