

Reuben Peter-Paul, MCS

Computing Scientist and Software Engineer

CONTACT INFORMATION

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WORK EXPERIENCE

MAY 2012 - *Present*

Senior Software Engineer, [IPSNP Computing Inc.](#), Saint John, New Brunswick

I work (part-time) as a programmer for IPSNP Computing Inc., where I am involved in the development of semantic web technologies applied to bio-informatics and clinical intelligence.

software engineering, logic programming, context free grammars, systems scripting and integration

MARCH 2012 -
Present

Information and Communications Technology Officer, [Aboriginal Workforce Development Initiative](#), Fredericton, New Brunswick

As Information and Communications Technology (ICT) Officer, I am involved in the design, implementation and execution of a federally funded project directed at the development of a specialized *training-to-employment* program called the New Brunswick Aboriginal Information and Communications Technology ([NBAICT](#)) project.

partnership building, curricula design, marketing, public speaking, statistical analysis

FEBRUARY 2009 -
FEBRUARY 2012

Prototype Development Specialist, [National Research Council](#), Fredericton, New Brunswick

As a programmer at the National Research Council, I worked in teams consisting of other NRC Prototype Development Specialists, Research Officers, Business Development Officers, and Industry partners.

Three major projects I participated in were:

- **REM**, dose registry and radiation exposure management platform.
- **OmniBid**, open system for many-to-many automated negotiation platform.
- **Trax**, automatic vehicle location platform.

software engineering, scripting, build automation, release management, database management, mobile application development, continuous integration, agile, architecture and design

MAY 2008 -
FEBRUARY 2009

Software Consultant, [Accreon](#), Fredericton, New Brunswick

I was hired as a software consultant to participate in a small team to redesign a software product for an existing client.

software engineering, scripting, build automation, release management, database management

JANUARY 2006 - APRIL 2008	<p>Research Assistant, Faculty of Computer Science, University of New Brunswick, Fredericton, New Brunswick</p> <p>I was involved in the development of a new structural representational formalism, the Evolving Transformation System (ETS).</p> <p><i>knowledge representation, computational theory, data visualization, symbolic computation, software engineering</i></p>
JANUARY 2006 - APRIL 2008	<p>Teaching Assistant, Faculty of Computer Science, University of New Brunswick, Fredericton, New Brunswick</p> <p>I assisted in class labs and I marked assignments for several introductory, intermediate and advanced subjects in computer science.</p>
MAY 2005 - DECEMBER 2005	<p>Software Developer, Isomni Solutions Inc., Fredericton, New Brunswick</p> <p>I developed an e-learning course management solution (iLearn). I also designed and developed web-based user interface and a reference manual.</p>

EDUCATION

DECEMBER 2006 - MAY 2009	<p>Master of Computer Science, Specializing in data representation and visualization for pattern recognition and machine learning.</p>
INSTITUTION	University of New Brunswick
SEPTEMBER 2000 - MAY 2005	<p>Bachelor of Computer Science, Co-op, Honours and designated Major in Software Systems</p>
INSTITUTION	University of New Brunswick

ACTIVE PROJECTS

RULEML PSOA	I am an active contributor to the RuleML PSOA specification as part of the PSOA2TPTP project.
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SELECTED TECHNICAL SKILLS AND ABILITIES

PROGRAMMING LANGUAGES	<p><i>General:</i> Java, Haskell, Lisp, Clojure, C/C++, Objective-C</p> <p><i>Logic:</i> Prolog, JBoss Drools, PSOA RuleML</p> <p><i>Markup:</i> HTML5, \LaTeX, Markdown, Restructured Text, HAML, SASS</p> <p><i>Scripting:</i> JavaScript, Ruby, PL/SQL, BASH</p> <p><i>Learning: Clojure, Erlang, Scala</i></p>
SOFTWARE ENGINEERING	<p><i>Architectural Styles:</i> REST, Web Services, Message Queue, MVC, Pipeline</p> <p><i>Development Methodologies:</i> Agile, Extreme Programming (XP), Scrum, TDD/BDD</p> <p><i>APIs:</i> J2EE, JAX-RS, JPA, JMS, Java Servlet, OSGI, JADE</p> <p><i>Frameworks:</i> jQuery, Rails, Flex, Adhearsion, Jersey, RESTEasy, ANTLR, Parsec</p> <p><i>Mobile Platform:</i> iOS, Android</p> <p><i>Automation:</i> Jenkins, Maven, Ant, Automake, xUnit, Cucumber, RSpec</p> <p><i>Telephony:</i> Asterisk, Festival TTS</p>
SERVERS	<p><i>Web:</i> Apache HTTP, Tomcat, Mongrel, Node.js, Jetty, Snap</p> <p><i>Stacks:</i> JBoss, JMX, Equinox, SpringSource dm Server, JADE</p> <p><i>Telephony:</i> Asterisk</p> <p><i>Database:</i> MySQL, Oracle, PostgreSQL, SQLite, MongoDB, BigTable</p> <p><i>Version Control:</i> Git, Subversion</p> <p><i>Repository:</i> Apache Ivy, Sonatype Nexus</p>

AUTHORING *Code:* emacs, vim, eclipse, Xcode, Matlab
 Text: Org Mode, ScribTeX, Sphinx
 Statistical Analysis: Org-R, R
 Diagrams: Graphviz, UMLet, Visio

PERSONAL INFORMATION

INTERESTS AND HOBBIES PERSONAL – family, hunting, archery, chess, snow boarding, board games, music
 PROFESSIONAL – emacs, functional programming, web APIs, cloud computing, security
 SCIENTIFIC – category theory, λ calculus, π calculus, proof-carrying code, knowledge/data visualization

SOURCE CODE REPOSITORIES [GitHub](#), [Google Code](#)

AWARDS AND RECOGNITION

MAY 2010 **KIRA, Technological Advancement and Innovation in the Private Sector**, our team was recognized for our automatic vehicle location platform developed in partnership with [Red Ball Internet](#).

AUGUST 2008 **Post Secondary Education Achievement**, I was recognized by the Pabineau First Nation community for successfully obtaining a master's degree in Computer Science.

REFERENCES

Available upon request.