




# Richard G. Côté

## Contact


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## Profile


15+ years practical experience with large software development projects.  
Skill and training in life sciences and IT.  
Methodical approach to complex problem solving.  
Accustomed to work in an Agile environment (Scrum / Kanban).

## Professional Experience


### R&D Specialist – Software Engineer [Since July 2013]

*Nestle Institute of Health Sciences, Lausanne*   
Project management, software development and data architecture for a multi-omics and clinical data warehouse and R interfaces. Member of the cross-project architecture team. Member of the Nestle Big Data task force.


### Senior Software Engineer [May 2005 – May 2013]

*European Bioinformatics Institute, Cambridge*   
Back-end, front-end and web service development for several highly accessed projects at the EBI, including the PRoteomics IDentification (PRIDE) proteomics data repository, the Ontology Lookup Service (OLS) and the Protein Identifier Cross-Reference (PICR) service.


### Systems Manager [October 2004 – March 2005]

*McGill University, Montreal*   
Business Intelligence and requirement gathering for the McGill University Life Sciences Complex. Coordination with hardware and software

### Software Developer [January 2002 – October 2004]

*Sequence Bioinformatics, Montreal*   
Analysis and bioinformatics consulting to implement or develop custom solutions. Projects included building a web-based LIMS for a breast and ovarian cancer research project (Centre Hospitalier de l'Université de Montréal and Royal Victoria Hospital), integrating external third-party analysis tools and reference databases into a centralized SAAS platform (CGI Life Science Services Centre) and performing various network and software administration tasks.

### Research Assistant [March 2000 – December 2001]

*Ste-Justine Hospital, Paediatric Oncology Research Centre, Montreal*   
Port legacy data entry software into web-accessible LIMS. Hardware and software support. Automate common analysis tasks using scripting. Prepare publication-grade figures and graphics.


## Skills




Controlled Vocabularies  
Web Services  
Struts  
Hibernate  
Scrum  
MySQL  
Software Engineering  
PHP  
Apache  
ElasticSearch  
Photoshop  
Confluence  
Scripting  
XML  
Schema  
Data Warehousing  
R  
Jackson  
REST  
Tomcat  
Agile  
IntelliJ  
ORM  
JUnit  
Lucene  
JDBC  
SOAP  
Jira  
Java  
Gimp  
MS Office  
SVN  
JAXB  
WordPress  
Kanban  
CSS  
LSF  
postgreSQL  
R  
Studio  
Spring  
JavaScript  
SpringMVC  
Eclipse  
Jetty  
Git  
Minimal Data Standards  
Data Modeling  
Ontologies  
XML  
Maven  
Oracle

## Education


### D.E.S.S. Applied Computer Science

*Université de Montréal*   
2000 – 2001


### M.Sc. Biochemistry

*McGill University, Montreal*   
1997 – 2000

### B.Sc. Honours Biochemistry

*McGill University, Montreal*   
1994 – 1997

### D.E.C. Pure Sciences

*CEGEP de l'Outaouais, Hull*   
1992 – 1994

## Selected Publications

Côté RG et al., The PRoteomics IDentification (PRIDE) Converter 2 Framework, *Mol. Cell. Proteomics*. 2012, PMID: 22949509.  
Côté RG et al., The Ontology Lookup Service: bigger and better, *Nucleic Acids Res.* 2010, PMID: 20460452.  
Côté RG et al., The Protein Identifier Cross-Referencing (PICR) service: reconciling protein identifiers across multiple source databases, *BMC Bioinformatics* 2007, PMID: 17945017.  
Full list (26) available upon request.

## Other information

English and French fluently written and spoken.  
Dual nationality:  

References are available upon request.

Keywords: Agile Apache Back-End development Clinical Data Confluence Controlled Vocabulary CSS Data Architecture Data Warehouse Database Design Eclipse ElasticSearch Genomics Gimp Git IntelliJ Hibernate Jackson JUnit JAXB JDBC JS JSP Java JavaScript Jetty Jira Kanban LSF Lucene Maven Minimal Data Standards MS Office MySQL nginx ORM Ontologies Oracle PHP Photoshop PostgreSQL Proteomics R REST R Studio SOAP SVN Schema Scrum Software Engineering Struts Spring SpringMVC Web Application Web Services Scripting SVN Tomcat WordPress Web Services XML Schema