RICHARD **CÔTÉ**

✉ rglcote@gmail.com
☎ +41 (0) 78 653 7213
in ch.linkedin.com/in/rcote/

15+ years practical experience with large software development projects in Life Sciences and IT. Methodical approach to complex problem solving. Accustomed to work in an Agile corporate or academic environment.
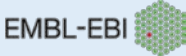
Timeline

2013 — R&D Specialist - Software Engineer & Technical Project Manager
Nestlé Institute of Health Sciences, Lausanne

2005 — Senior Software Engineer
European Bioinformatics Institute, Cambridge

2004 — Systems Manager
McGill University, Montréal

2002 — Software Engineer
Sequence Bioinformatics, Montréal

2000 — D.E.S.S. Applied Computer Science
Université de Montréal, Montréal

2000 — Software Engineer
Hôpital Sainte-Justine, Montréal

1997 — M.Sc. Biochemistry
McGill University, Montréal

1994 — B.Sc. Biochemistry (Honours)
McGill University, Montréal

SKILLS

Languages	Java, Python, C#, R, PHP
IDE & Tools	IntelliJ, Android Studio, Visual Studio, R Studio, Eclipse, Git, Subversion, Maven, Confluence, Jira
Database	MySQL, PostgreSQL, Oracle, Data Modelling, Data Warehouse, Master Data Management, ETL, XML Schema,
Java technologies	Hibernate, Spring, SpringMVC, Struts, JaxB, JaxWS, Jackson, Swing, Lucene, JSP, Tomcat, Jetty
Mobile	Android, Xamarin
Graphics	Gimp, Photoshop, Illustrator
Others	Wordpress, MS Office

Perfectly fluent in English and French
Dual nationality 🇨🇦 🇬🇧
B-Permit 🇨🇭

SELECTED PUBLICATIONS

Côté RG et al., The PRoteomics IDEntification (PRIDE) Converter 2 Framework, Mol. Cell. Proteomics. 2012.

Côté RG et al., The Ontology Lookup Service: bigger and better, Nucleic Acids Res. 2010.

Côté RG et al., The Protein Identifier Cross-Referencing (PICR) service: reconciling protein identifiers across multiple source databases, BMC Bioinformatics 2007.

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

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2013 🔴	R&D Specialist - Software Engineer & Technical Project Manager, Nestlé Institute of Health Sciences, Lausanne

Digital Nutrition & Health: Scrum master, technical project manager, back-end API development and data architecture for connected nutrition intelligence platform.

- Scrum master for development team (4 FTEs)
- Technical project manager for multiple activity streams
    - Roadmap coordination across project activity streams and internal clients
    - Feature prioritization and sprint planning for the development of multiple mobile applications
    - Clinical trial protocol design
- Mobile application acceptance testing
    - Coordinate and communicate with internal testers
    - Monitor testing plan and manage bug reports and new feature requests
- Design a data integration and data warehouse schema to integrate and distribute nutritional information
    - Data modelling and database design
    - Implement ETL for data load and model validation
    - Lead architecture for data flow across systems
- Collaborate in API definition and refactoring

BioSystems Informatics: Project management, software development and data architecture for a multi-omics and clinical data warehouse with R interfaces. System-to-system integration.
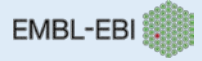
- Technical project manager for data integration and distribution project
    - Write project brief and project plan
    - Milestone reporting
- Design data integration and data warehouse schema to integrate and distribute multiple types of scientific data
    - Validate, update, refactor and maintain ETL designed from 3rd party contractor
    - Collaborate in the design and implementation of R data access library for data analyst
- Design and implement XML schema for system-to-system message-based integration
- Implement master data management solutions for controlled vocabulary annotations, queries and validation
- Lead project to upgrade production Laboratory Information Management System (LIMS)
    - First-line support between end-users and vendor
    - standardize installations between dev/test/prod systems
    - Implement and secure system-to-system integration
    - Internal and external compliance testing

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2005 ●	Senior Software Engineer European Bioinformatics Institute, Cambridge	EMBL-EBI

Back-end, frond-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.

- Refactoring of the PRIDE proteomics data repository from a small-scale proof of concept to a production-ready system
    - Data modelling of back-end database
    - Collaborate in implementing middleware code for data I/O
    - Collaborate in implementing front-end presentation layer
- Design and implementation of the Ontology Lookup Service, a new system for controlled vocabulary queries and master data management
    - Data modelling of back-end database
    - Lead implementation of middleware logic
    - Lead implementation of front-end presentation layer and web services
    - Open source strategy for distribution of code and data
- Design and implementation of the Protein Identifier Cross-Reference (PICR) service, a new system for protein identifier data integration
    - Data modelling of back-end database
    - Lead implementation of middleware logic
    - Lead implementation of front-end presentation layer and web services
    - Integration strategies for automated mapping of data submitted to PRIDE
- Design and implementation of the PRIDE Converter tool, a rich java application that can convert mass spectrometry file formats into a PRIDE-compatible submission format.
    - Lead UX design and implement a rich Java client
    - Integration with previously described web services (OLS, PICR) as part of the submission process to generate well-annotated, syntactically and semantically validated XML files
- Write and publish peer-reviewed articles relating to work on PRIDE, PICR and OLS
- Present PRIDE, PICR and OLS in various scientific conferences, workshops and tutorials
- Supervision of trainee master student (6-month internship).