RICHARD CÔTÉ

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☎ +41 76 510 7213
in ch.linkedin.com/in/rcote/

"20+ years practical experience in Agile software development and life sciences data projects in corporate R&D and academia."

2023 ● R&D Specialist - Digital Health Technologies
Société des Produits Nestlé, Lausanne
Nestlé Research

2018 ● R&D Specialist - Digital PM
Société des Produits Nestlé, Lausanne, CH
Nestlé Research
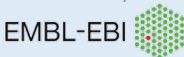
2013 ● R&D Specialist - Software Engineer
Nestlé Institute of Health Sciences, Lausanne, CH
Nestlé Institute of Health Sciences

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

2004 ● Systems Manager
McGill University, Montréal, CA
McGill University

2002 ● Software Engineer
Sequence Bioinformatics, Montréal, CA
sequence bioinformatics

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

2000 ● Software Engineer
Hôpital Sainte-Justine, Montréal, CA
CHU Sainte-Justine — Le centre hospitalier universitaire mère-enfant

1997 🎓 M.Sc. Biochemistry
McGill University, Montréal, CA
McGill University

TECHNICAL SKILLS

Languages	Java, Python, C#, R
IDE & Tools	IntelliJ, Visual Studio, PyCharm, R Studio, Android Studio, Git, SVN, Confluence, Jira, VSTS
Data & DBMS	Data Modelling, Master Data Management, Data Governance, ETL, MS SQL, PostgreSQL, Oracle
Cloud	Microsoft Azure
Java technologies	Hibernate, Spring, SpringMVC, JaxB, JaxWS, Jackson, Swing
Graphics	Gimp, Photoshop, Illustrator
Others	Wordpress, MS Office, Shopify

SOFT SKILLS

Scrum Master
Project Management
Leadership Skills for Project Managers
Stakeholder Relations
Growth Hacking Fundamentals
Design Thinking Fundamentals
Unconscious Bias

OTHER

Perfectly fluent in English and French
Dual nationality 🇨🇦 🇬🇧
C-Permit 🇨🇭
28 Peer-reviewed publications
Conference speaker
WSET Level 2 *WSET Wine & Spirit Education Trust*

Keywords: Agile Apache Apple App store Azure Back-End development C# Clinical Data Confluence Controlled Vocabulary CSS Data Architecture Data Governance Data Warehouse Database Design Eclipse ETL Full-Stack Genomics Gimp Git Google Play store Growth Hacking IntelliJ Hibernate Jackson JUnit JAXB JDBC JS JSP Java JavaScript Jetty Jira Kanban Kettle LSF Lucene Maven Minimal Data Standards MS Office MSSQL MySQL nginx ORM Ontologies openSSL Oracle Pandas Pentaho Data Integration PDI PHP Photoshop PostgreSQL PowerBI Project Management Proteomics PyCharm Python R REST Roadmap R Studio SOAP SSIS SSL SVN Schema Scrum Software Engineering Spring SpringMVC Stakeholder management Web Application Web Services Scripting Tomcat WordPress Web Services XML Schema

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2023 ● R&D Specialist – Digital Health Technology
Société des Produits Nestlé, Lausanne
Nestlé | Research

Data Sciences & Precision Nutrition: Nutrition data architecture and governance, digital health technology scouting.

- Contribute to R&D Nutrition & Health data strategy elaboration
- Design and develop a robust, scalable data architecture to promote (re)use of nutritional data with supporting ETL packages and release management best practices
- Champion the use of digital dietary intake technologies into clinical research practice
- Scientific and compliance evaluation for new technology applications
- Technical stakeholder relation management
- Lead streams in projects requiring nutritional data or digital technology support
- Coach and guide younger members of the project team

2018 ● R&D Specialist – Digital Project Manager
Société des Produits Nestlé, Lausanne
Nestlé | Research

Digital Nutrition & Health: Scrum Master, project management, compliance champion.

- Scrum Master for development team (4-7 FTEs) - mobile applications and rapid digital prototypes
- Project Manager for multiple activity streams, with activities in:
    - Roadmap coordination and project planning
    - Budget and resource planning and tracking
    - Contract and legal issue tracking
    - Stakeholder relation management
- IT Compliance, data privacy, impact and risk analysis for 3rd party cloud solutions
- Growth hacking and interim PM for innovation accelerator project (concept to shop test) in personalized infant nutrition

2013 ● R&D Specialist - Software Engineer
Nestlé Institute of Health Sciences, Lausanne
Nestlé Institute of Health Sciences

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
- Design and develop a data warehouse to integrate and distribute multi-omics and clinical data, with supporting ETL packages and R-language data access library for data analysis
- Design and implement XML schema for message-based system-to-system integration
- Implement master data management solutions for controlled vocabulary annotations, queries and validation
- Technical lead for upgrade of production Laboratory Information Management System (LIMS), including standardization of dev/test/prod environments, implementation and securing of system-to-system integration and compliance testing
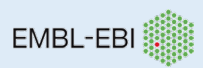
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2005 🔴	Senior Software Engineer	EMBL-EBI
	European Bioinformatics Institute, Cambridge	

Full-stack 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).