



FinTech Industry Outlook, Ryerson University

Trends, Case Study, and App Development Workshop (Liferay + Vaadin + Java)

By Marc Lijour

March 15, 2017

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Savoir-faire
LINUX

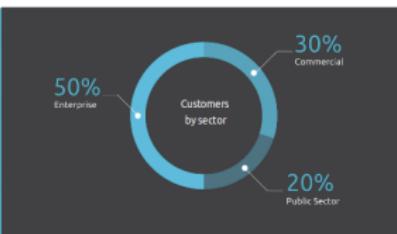


CONNECTED PEOPLE
& OBJECTS

DIGITAL ECONOMY
& INNOVATION

COOPERATION &
SUSTAINABLE DEVELOPMENT

Company Profile



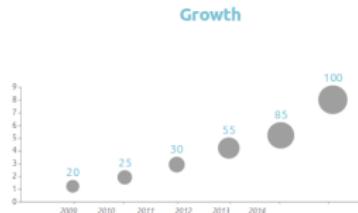
4 main offices

Toronto
Québec
Montréal
(head quarters)
Paris

4 training centers

Toronto
Ottawa
Québec
Montréal

Growth



Certifications ISO 9001 and ISO 14001

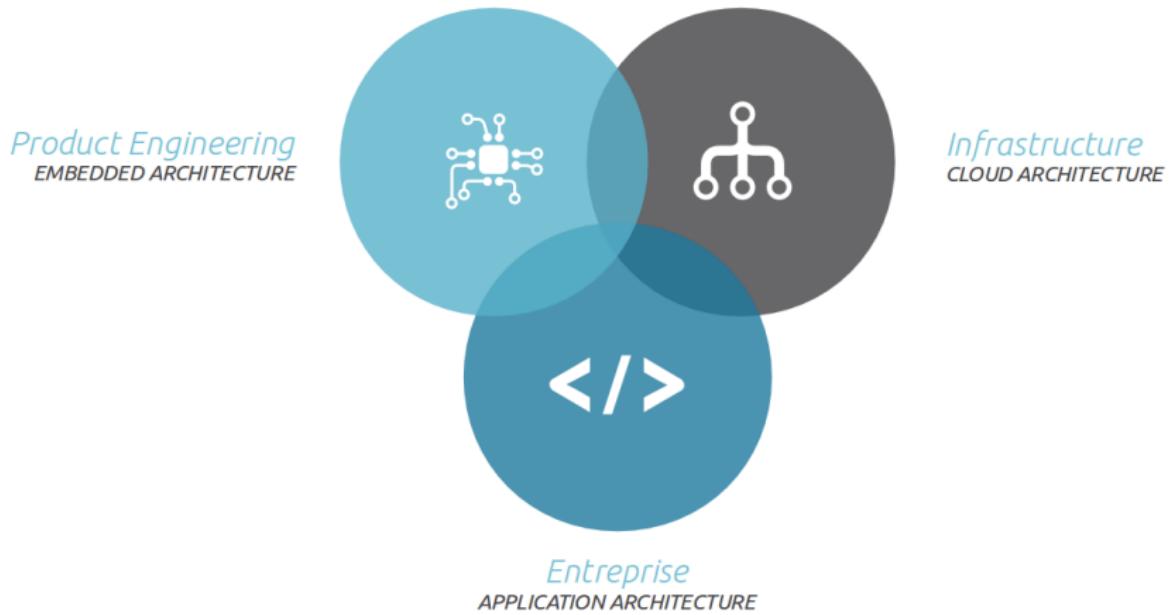


Solid references



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A wide spectrum of competencies



Services



Consulting + R&D

*Feasability and costs studies
Migration plans
Research and development*

Development + integration

*Deep knowledge of free/open-source software and communities
Agile engineering practices*

24/7 Technical Support

*Reactive assistance night and day
Incident handling
Managing 600+ servers / 3000+ services*

Training Center

*60+ courses (technical et users)
Custom coaching programs*



Triple Bottom Line



Excellence



Environment

The Four Freedoms



Freedom 0

"The freedom to run the program, for any purpose"



Freedom 1

"The freedom to study how the program works, and adapt it to your needs"



Freedom 2

"The freedom to redistribute copies so you can help your neighbors"



Freedom 3

"The freedom to improve the program, and release your improvements to the public, so that the whole community benefits"

Community

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*20% of the world's economy
will be digital by 2020.*

—Accenture #techvision2016



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FinTech: Technology resets the game for FSIs

- “Silicon Valley is coming” —Jamie Dimon, CEO, JP Morgan Chase



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 - Wealthsimple → intelligent investment, Bye bye management fees



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 - Square, Venmo → payment on the go
 - etc



The Milenials



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Open Source runs (almost) Everything

2015 was an inflexion point

<https://www.blackducksoftware.com/future-of-open-source>

WIRED Open Source Software Went Nuclear This Year
CADE METZ BUSINESS 12.27.15 7:00 AM

OPEN SOURCE SOFTWARE WENT NUCLEAR THIS YEAR

OVER THE NEXT 2 – 3 YEARS...

88% TO INCREASE OPEN SOURCE CONTRIBUTIONS **61%** EXPECT SECURITY OF OPEN SOURCE TO RISE

EXPECTED TO BE IMPACTED MOST:

Category	Percentage
CLOUD COMPUTING	39%
BIG DATA	35%
OPERATING SYSTEMS	33%
INTERNET OF THINGS	31%

HOW & WHY COMPANIES ARE USING OPEN SOURCE

The 2015 Future of Open Source Survey finds

78% OF COMPANIES RUN ON OPEN SOURCE
(nearly double since 2010) &

64% PARTICIPATE IN OPEN SOURCE PROJECTS.
yet many still lack formal policies and processes to manage potential open source-related security, operational, and legal risks.

66% OF COMPANIES BUILD CUSTOMER SOFTWARE ON OPEN SOURCE

OPEN SOURCE USE & PARTICIPATION HAS REACHED AN ALL-TIME HIGH

93% OPEN SOURCE USE INCREASED OR STAYED THE SAME

5% UNSURE

28% SAME

65% INCREASED

2% DECREASED

BLACKDUCK NORTH BRIDGE

A threatening Gap for Incubants

Start ups

- Small
- Agile
- Open Source
- Bootstrapping

Old Bank

- Very large (often dealing with multiple jurisdictions)
- Siloed and burdened with processes
- Legacy technology (mainframe, COBOL, etc)
- Supporting a branch network (brick and mortar)



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Areas of Focus for Financial Services Institutions (FSIs)



Reduce Customer Friction



Save on Costs



Generate New Revenues



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Technology Tsunami in Progress

... and as many job opportunities...

- DevOps → BizDevOps



Technology Tsunami in Progress

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- Blockchain



Technology Tsunami in Progress

... and as many job opportunities...

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- Big Data and Analytics (Hadoop is hot)



Technology Tsunami in Progress

... and as many job opportunities...

- DevOps → BizDevOps
- Blockchain
- Big Data and Analytics (Hadoop is hot)
- Artificial Intelligence, Machine Learning



To generate relevant and valuable services for the customer, as expectations rise, and to do it fast enough.



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Our mission was to help Customer-Facing Employees to be more productive

The 45,000 "Conseillers Desjardins"

USER-CENTERED DESIGN



EFFICACY

Achieving Customer Goals

EFFICIENCY

Expertise, Savoir-faire & Customer Delight

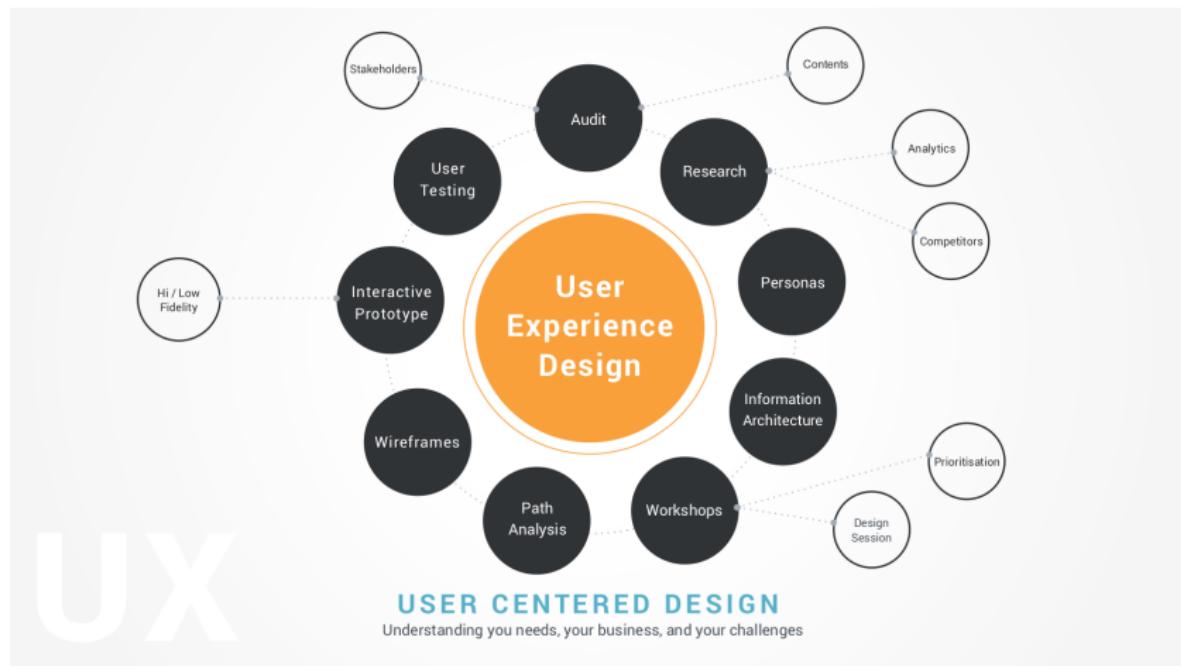
SATISFACTION

Meeting your Customers' Expectations



BizDevOps in Action

Developers work Closely with the Customers and End-Users



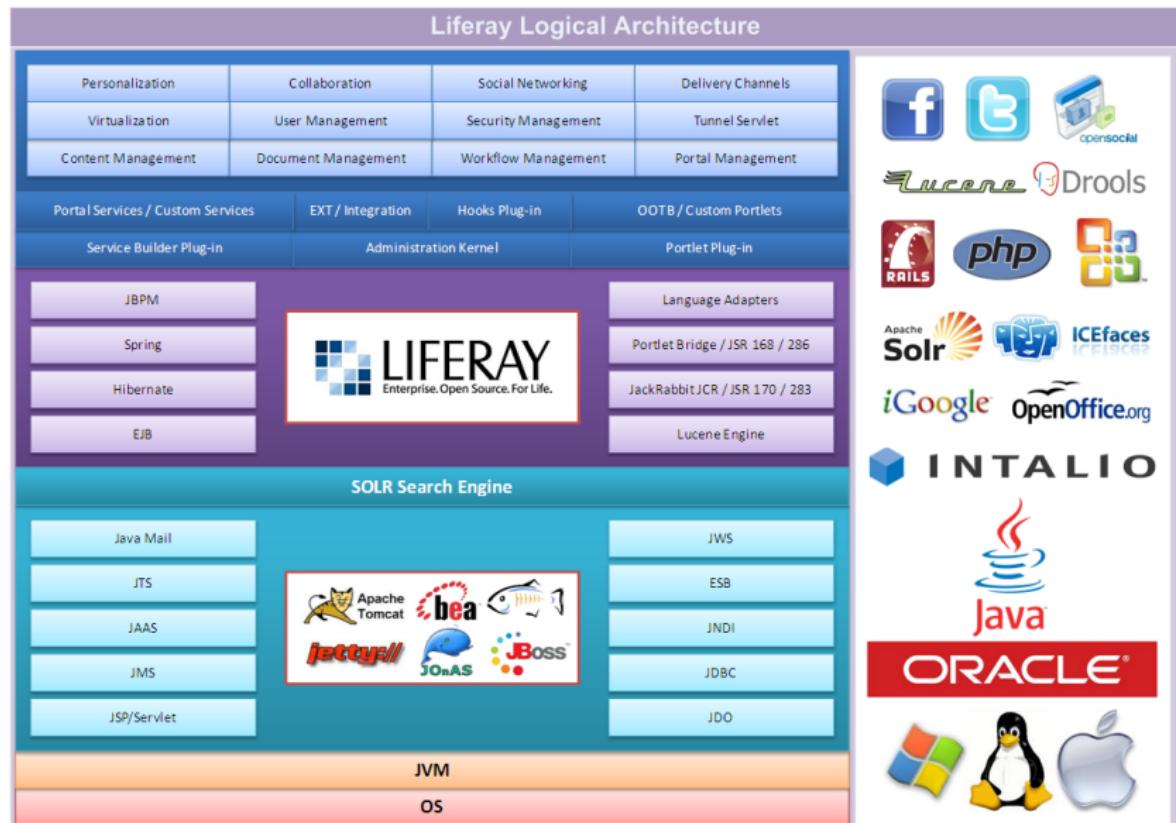
Bring the most value for each type of user



PERSONIAS

Liferay is a perfect choice for FSIs

Java-based, Enterprise-Ready, Open Source, Local Partners to help



Concept

ADVISOR DASHBOARD
Desjardins
Web App - liferay
2013

PERSONAL GOALS FOLLOW-UP

DATAVISUALISATION TEAM GOALS FOLLOW-UP

INCOMING CALLS

When receiving a call, the advisor gets instantly the caller's personal info and can help him quickly without even looking at his account.

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Workshop

Developing an app for an online insurance

The **workshop** will focus on Liferay, a sophisticated Content Management System (CMS), built on Java, that makes it easy to design, develop, and implement modern applications. Attendees will practice with building an app for a fictitious auto insurance company, using Liferay and Vaadin.

Maxim Gorshkov has prepared two sets of documents, *i*) skeleton app to fill in the blanks, and *ii*) a complete solution, respectively:

- https://github.com/mkgorshkov/Ryerson_Presentation_March15_Learning
- https://github.com/mkgorshkov/Ryerson_Presentation_March15

The winner gets a Savoir-faire Linux Tee-Shirt and a shot at a Summer Internship!



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LIFERAY
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