

# Sylvain Leroy

SOFTWARE QUALITY MANAGER / DIGITAL SOLUTION ARCHITECT

Married, two children

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*"Innovation is the right balance between risk and conservatism"*

## Education

### NINJA SQUAD

ANGULAR 2 TRAINING

- Angular 2 and Typescript training

Geneva

Jan. 2017

### INRIA, IRISA, University of Rennes 1.

COMPILER, PERFORMANCE AND MICRO ARCHITECTURE, MASTER OF RESEARCH (RM2) PROGRAM

- Specialization in compilation technics to create source-to-source(transpiling) frameworks for performance optimisations

Rennes, France

Jun. 2007 - 2004

### IUT Lannion, University of Rennes 1.

BACHELOR OF COMPUTER SCIENCES,

- C/C++ Software development course, requirements, team management.

Lannion, France

Jun. 2004 - 2002

## Skills

<b>Software skills</b>	Cleancode, Web Applications, DDD/SOA/REST Architectures, Microservices, Batches, MDA Modelers, Compilers
<b>Legacy Software migration</b>	Monoliths modularisation and testing, automatic migration/compilation technics, Source-to-source expert
<b>Software audit</b>	ISO 9126, ISO 25000, Balanced scorecard, CMMI, KPI, COCOMO2
<b>Test Tools</b>	Selenium, PhantomJS, SoapUI, Spring Test, JMeter, Gatling, Spock, Cucumber, JBehave, JGiven, JUnit 4 and 5, Mockito
<b>Quality Tools</b>	Postman, SOAPui, CppUnit
<b>Team management</b>	SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource
<b>Innovation</b>	Agile/Kanban, Scrum, Waterfall
<b>Programming Languages</b>	Research promotion, Innovating ideas, Research project initiator
<b>DevOps</b>	Java, C, C++, TypeScript, JavaScript, Groovy, PHP, PL/SQL, Delphi, VB
<b>Databases</b>	Kubernetes, Docker, Ansible, Jenkins, Maven, Gradle, CMake, Make, QMake, Composer, Bower, Nexus
<b>Web/UI</b>	MySQL, S3, MongoDB, PostgreSQL, Elasticsearch, OrientDB, Cassandra, OpenTSDB, KairoDB, Oracle
<b>Web/Middleware</b>	Vue.JS, JSP, Thymeleaf, Angular 2, JQuery, Wicket, GWT, Jade
<b>Web/DAO</b>	Spring/MVC, Jersey, CXF, Node.JS, Express, Loopback, Silex
<b>Languages</b>	JDBC, Spring JDBC, MyBatis, Spring Data, Hibernate, JPA
	French (Natural), English (C1), German (B1), Russian (A2)

## Experience

### SERIAL SA

SOLUTION ARCHITECT, TECH LEAD

Geneva, Switzerland

Janvier 2017 -

- *SERIAL SA is a famous company of 30 years old in Switzerland, delivering IT services. Its activities are focused on Web, ECM, Mobile, BI, Security, and Software Engineering expert skills.*
- **1st Trimester 2017 - GHI: Software Audit Quality Assessment and Performance diagnostic**  
Java, AngularJS, JHipster, Gatling, JMeter, SonarQube, Maven, Bamboo
- **2nd Trimester 2017 - GSK Novartis: JEE Tech Lead**  
Technical review of the project, technical migration and Java expertise  
Docker, Jenkins, Oracle, Java, Javascript, JSP, W4 Business Engine, Tomcat, Apache, Gradle, JIRA, Bamboo
- **TechTalk: Speaker**  
Why developers should care about quality ?
- **HSBC Private Banking: Technical lead**  
member of the Middleware team **delivery assessment**, technical expertise and review, international environment and offshore teams  
Spring / Javascript / Ansible / Maven / Apache Camel / SOA / REST

- **2013-2016 - Software Editor : DevOps Dashboarding Solution** Solution to produce KPIs and alerts for DevOps teams by extracting the data of their Software Factory and ALM Solution. Solution initially designed for the SoftAtHome company.  
*Gradle, Spring, Spring Cloud, Jenkins, Puppet, Foreman, Nexus, Spring MVC, Java, Groovy, JUnit, Spock, Elasticsearch, MySQL, Quartz, GWT, Wicket, JQuery, Mybatis*
- **2015-2016 - Software Editor : Komea Software Factory solution** Solution to produce on-demand Software Factories in cloud environment by specifying the team needs. This solution was fully integrated with the other DevOps Dashboarding solution. Main benefit of that solution is to automate the common tasks of integrator and Software Factory maintainers  
*Jenkins, Redmine, Jira, Salesforce, Puppet, Foreman, SonarQube, Kiuwan, GIT, Nexus, Artifactory, Spring, Spring Cloud*
- **Semester 2016 - Automated Refactoring/Migration of a Financial Editor product : Fircosoft** Automated migration with Metrixware Refactoring framework of the Fircosoft main product Continuity to a new technological stack.  
  - Test Automation** : refactoring of the customer's product to ease the work of the QA Team by capturing traces and replaying them. Development of a automation test framework.
  - DevOps** : creation of the build/packaging for the product
  - Software Assessment** : Software assessment (code quality, metrics, technologies, tests, architecture) to define a technological roadmap for the customer's product
  - Technologies** : *SonarQube, Kiuwan, Jacoco, Java, Spring, Spring MVC, XML, Maven, Selenium, JUnit, Mockito, RhinoJS, Javascript, Thymeleaf, JSP, GIT, Groovy*
- **2014-2016 - Senior Software Quality Auditor : Adminext/BearingPoint partnership** Main auditor for Software Quality assessments of public french administration and ministry  
  - Functional audit** : As an auditor, I had to review the quality of the documentation, specifications, the precision of the software implementation based on the requirements of the customer.
  - Database/Scheme audit** : As an auditor, I had to review the quality of the database schema of different critical solutions according various best practices, 1-NF, 2-NF, 3-NF, data quality...
  - Test Automation** : As an auditor, I had to review the quality of tests and the usage of the different methodologies TDD, BDD and the maintainability of the automated tests as well producing roadmap to increase the test coverage
  - Code quality** : As an SQA Expert, I had to select the appropriate tools to perform Code quality measures and technical debt diagnostic of the customer's software, tune them and their quality profiles. Part of my work is to segregate the results to prioritize and classify the issues according different qualimetry models as Sqale, ISO-9126...
  - Continuous Delivery** : As a DevOps coach, I was performing assessments of the build and the whole toolchain to build the customer's solutions basing my approach on methodologies such like the Continuous Delivery book, Twelve Factors approach...

## TOCEA

COFOUNDER AND CTO TOCEA/ECHOES LABS

Rennes, Quebec

Mar. 2011 - Jun. 2014

- *Tocea is a innovating company that provides refactoring source-to-source solutions to help the software editors to refurbish their legacy softwares in record time and budget*
- **Architect**, main developer of a editor solution of Code Quality analysis, competitor of SonarQube : solution
- **Contributor to SonarQube ecosystem** : development of a SaaS solution for SonarQube to provide worldwide Quality benchmarks
- **DevOps Coach** for SoftAtHome, 60 Developers, 20 QA, **2012-2014**  
  - Modernization of S@H Software Factory and build** : C/C++, Jenkins, CMake, Make, SonarQube, Coverity, Bugzilla, HP QC
  - Test Automation advisor**, and Requirements analysis : Testlink, CPPUnit

## INRIA/IRISA

RESEARCH ENGINEER FOR SERENITEC (SECURITY, REFACTORING, INTERNET, TECHNOLOGIES) RESEARCH PROJECT

Rennes

Septembre. 2007 - Sep. 2010

- **Main developer** of a new technology for the detection of **quality**, reliability and **security** problems in Web Applications
- Technical Lead of a research team (2 Phd, 2 Engineers)
- Code Qualimetry tool development : C/C++, Java

## Honors & Awards

### INTERNATIONAL

- 2013 **Finalist**, Innovation award from the French Ministry of the Industry (Créadev)
- 2012 **Finalist**, Innovation award from the French Ministry of the Industry (Emergence)
- 2011 **Laureate**, Phar Fund laureate

Paris, France

Paris, France

Rennes

## Presentation

### OCTO

PRESENTER FOR OCTO

Lausanne

July. 2017

- Internal presentation : Why should we love our software ?

## SERIAL

PRESENTER FOR SERIAL

- Internal presentation : Why code quality does really matter ? How to boost your dev skills.

Geneva

Apr. 2017

## AFDEL

PRESENTER FOR AFDEL/TECH IN FRANCE

- Diminuer sa dette technique : stratégie de migration ... - TECH IN France

Paris

Jul. 2012

## INRIA Workshop

PRESENTER FOR INRIA WORKSHOP

- Source-to-source technics for Java software optimizations

Rennes

Sep. 2007

# Writing

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## Blog Writer

DIGITAL TRANSFORMATION REFACTORING

- Blog on various subjects : Code quality, refactoring, Enterprise Architecture, Digital Transformation
- <https://sylvainleroy.com>

Switzerland

Jan 2017 -Now

## Main Writer

SOFTWARE LEGACY: HOW TO SAVE THEM ?

- WhitePaper on Software legacy and how to handle the technical debt

France

Sep. 2016 - Dec. 2016

## Main Writer

SOFTWARE REQUIREMENTS : A COMPLETE GUIDE AND MARKET STUDY

- Exhaustive WhitePaper on Software requirement domain and requirement software market

France

Sep. 2015 - Nov. 2015

# Extracurricular Activity

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## Opensource Developer

SONARTSLINT, SONARESLINT PLUGIN

- Maintainer of the opensource SonarQube plugin SonarESLint.
- Contributor to some open-source projects.

Switzerland

PRESENT

HOBBIES

- Mountain Climbing
- Fishing
- Traveling
- Gardening