

# Sylvain Leroy

CTO, SQA MANAGER, SOLUTION ARCHITECT

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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, Puppeteer, SoapUI, Spring Test, JMeter, Gatling, Spock, Cucumber, JBehave, JGiven, JUnit 4 and 5, Mockito, SOAPui
<b>Quality Tools</b>	SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource
<b>Cloud</b>	Google Cloud (GCE, K8s, API), Amazon S3, ECK, ECS, ELB, ECR, IAM
<b>Team management</b>	Agile/Kanban, Scrum, Waterfall
<b>Innovation</b>	Research promotion, Innovating ideas, Research project initiator
<b>Programming Languages</b>	Java, JavaScript, Groovy, C++, C, Kotlin, PL/SQL, Delphi
<b>DevOps</b>	Docker, Varnish, Ansible, Jenkins, Maven, Gradle, Kubernetes, QMake/CMake, Nexus, GIT
<b>Databases</b>	MySQL, S3, MongoDB, Elasticsearch, OrientDB, Cassandra, OpenTSDB, KairoDB, Oracle
<b>Web/UI</b>	Vue.JS (vuex, vue-router), Thymeleaf, Angular 2+, Wicket
<b>Web/Middleware</b>	Spring Boot (Security, Web), CXF, Node.JS, Express, Loopback
<b>Web/DAO</b>	Spring Data, Spring JDBC, MyBatis, Hibernate, EhCache, JPA
<b>Machine Learning</b>	DeepLearning4j, Smile; Weka, KNime
<b>Languages</b>	French (Natural), English (C1), German (B1), Russian (A2)

## Experience

### GENOMA SA, Esperite Group Affiliate

CHIEF TECHNOLOGICAL OFFICIER

- IT Manager in charge of three departments (Genetic laboratory, Bioinformatics Dept, IT Dept)
- Reorganization of the IT activities and product launch preparation.

Geneva, Switzerland

August 2019 -

### FAVEEO SA

CHIEF TECHNOLOGICAL OFFICIER

- **Stakeholder** on the Product vision, roadmap and strategy
- Fullstack Developer on the FAVEEO API, Frontend UI and Widgets, automatic video generation
- Design and development of an AI prediction system to detect viral newspaper articles (Java, Spring Boot, DeepLearning4j, Smile, Docker)
- Video generation from written newspaper article (Vue.js, Spring Boot, RabbitMQ; Docker, MongoDB, Elasticsearch, OpenNLP)
- Mail generation system using Node.JS, Java 8, Spring Boot and Mailchimp

Lausanne, Switzerland

September 2018 - July 2019

## AZQORE SA 6 Credit Agricole

Lausanne, Switzerland

SENIOR SOFTWARE QUALITY MANAGER

December 2017 - August 2018

- Try and Hire mission to secure on the long-term, the position of Senior Software Quality manager in a Private Bank of the Vaud canton.
- Member of the Enterprise Architecture department
- Update of the best practices (JEE, Cobol)
- Reverse engineering and architecture for the legacy projects
- (Provides architecture and code review for JEE Projects)
- Maintainer of the software quality tool platform for the bank
- **Promotion of DevOps practices**, Software quality and cleancode
- Organizer of a **techlead community** inside the Bank
- Technical and software watch for the new IT projects

## SERIAL SA

Geneva, Switzerland

SOLUTION ARCHITECT, TECH LEAD

January 2017 - November 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 Quality Assessment and Performance testing**  
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 review, devops best practices evangelization, international environment and offshore teams (India, China)  
Spring / Javascript / Ansible / Maven / Apache Camel / SOA / REST

## METRIXWARE/TOCEA

Rennes, Nanterre

STAKEHOLDER AND CTO METRIXWARE

Jun. 2014 - Dec. 2016

- **2013-2016 - Software Editor : DevOps Dashboard Solution** Solution of KPI and alert management for DevOps teams. It extracts data of their Software Factories and ALM Solutions. Solution initially designed for Set-top box Companies.  
*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 a cloud environment. This solution was fully integrated with our 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 their 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 road map 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 assessment of public french administration and ministries
  - 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 test strategy, the test quality and the good usage of the TDD, BDD methodologies as well as the completeness of their tests
  - 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, and configure the 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 am 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

Rennes, Quebec

COFOUNDER AND CTO TOCEA/ECHOES LABS

Mar. 2011 - Jun. 2014

- *Tocea is an innovating company that provides refactoring source-to-source solutions to help the software editor to refurbish their legacy software in record time and budget*
- **Architect**, main developer for a solution of Code Quality analysis, competitor of SonarQube
- **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

Rennes

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

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

Lausanne

PRESENTER FOR OCTO

July. 2017

- Internal presentation : Why should we love our software ?

### SERIAL

Geneva

PRESENTER FOR SERIAL

Apr. 2017

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

### AFDEL

Paris

PRESENTER FOR AFDEL/TECH IN FRANCE

Jul. 2012

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

### INRIA Workshop

Rennes

PRESENTER FOR INRIA WORKSHOP

Sep. 2007

- Source-to-source technics for Java software optimizations

## Writing

### Blog Writer

Switzerland

DIGITAL TRANSFORMATION REFACTORING

Jan 2017 - Now

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

### Main Writer

France

SOFTWARE LEGACY: HOW TO SAVE THEM ?

Sep. 2016 - Dec. 2016

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

### Main Writer

France

SOFTWARE REQUIREMENTS : A COMPLETE GUIDE AND MARKET STUDY

Sep. 2015 - Nov. 2015

- Exhaustive WhitePaper on Software requirement domain and requirement software market