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	*Geneva*
ANGULAR 2 TRAINING	*Jan. 2017*

• Angular 2 and Typescript training

INRIA, IRISA, University of Rennes 1.	*Rennes, France*
COMPILER, PERFORMANCE AND MICRO ARCHITECTURE, MASTER OF RESEARCH (RM2) PROGRAM	*Jun. 2007 - 2004*

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

IUT Lannion, University of Rennes 1.	*Lannion, France*
BACHELOR OF COMPUTER SCIENCES,	*Jun. 2004 - 2002*

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

Skills

Software skills	Cleancode, Web Applications, DDD/SOA/REST Architectures, Microservices, Batches, MDA Modelers, Compilers
Legacy Software migration	Monoliths modularisation and testing, automatic migration/compilation technics, Source-to-source expert
Software audit	ISO 9126, ISO 25000, Balanced scorecard, CMMI, KPI, COCOMO2
Test Tools	Selenium, Puppeteer, PhantomJS, SoapUI, Spring Test, JMeter, Gatling, Spock, Cucumber, JBehave, JGiven, JUnit 4 and Mockito, Postman, SOAPui, CppUnit
Quality Tools	SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource
Cloud	Google Cloud (GCE, K8s, API), Amazon S3, ECS, ELB, ECR, IAM
Team management	Agile/Kanban, Scrum, Waterfall
Innovation	Research promotion, Innovating ideas, Research project initiator
Programming Languages	Java, JavaScript, Groovy,C++, C, PL/SQL, Delphi
DevOps	Kubernetes, Docker, Varnish, Ansible, Jenkins, Maven, Gradle, CMake, Make, QMake, Composer, Bower, Nexus
Databases	Mysql, S3, MongoDB, PostgreSQL, Elasticsearch, OrientDB, Cassandra, OpenTSDB, KairoDB, Oracle
Web/UI	Vue.JS, JSP, Thymeleaf, Angular 2, JQuery, Wicket, GWT, Jade
Web/Middleware	Spring/MVC, Jersey, CXF, Node.JS, Express, Loopback, Silex
Web/DAO	Spring Data, Spring JDBC, MyBatis, Hibernate, JPA
Languages	French (Natural), English (C1), German (B1), Russian (A2)

Experience

SERIAL SA	*Geneva, Switzerland*
SOLUTION ARCHITECT, TECH LEAD	*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

METRIXWARE/TOCEA

STAKEHOLDER AND CTO TOCEA

- **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 metholodogies 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 metholodogies such like the Continuous Delivery book, Twelve Factors approach...

TOCEA

COFOUNDER AND CTO TOCEA/ECHOES LABS

- *Tocea is a innovating company that provides refactoring source-to-source solutions to help the sofware editors to refurbish their legacy sofwares 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

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

Presentation

OCTO

PRESENTER FOR OCTO

- 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

Extracurricular Activity

Opensource Developer

Switzerland

SonarTSLint, SonarESLint Plugin

PRESENT

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

Hobbies

- Mountain Climbing
- Fishing
- Traveling
- Gardening