

Sylvain Leroy

CTO, LEGACY/SOFTWARE MODERNIZATION ARCHITECT, PRODUCT/SQA MANAGER

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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

Software skills	Cleancode, Web Applications, CQRS/DDO/SOA/REST/Cloud Architectures, Microservices, Batches, MDA Modelers, Code generation and optimization, Compilers
Mainframe experience	Cobol (code review, code parsing and rewriting in another language), 3270 protocol and Mainframe screen revamping, lightweight Mainframe knowledge (including CICS)
Legacy Software migration	Cloud Software migration (Monoliths), Test Automation, Refactoring technics, Source-to-source expert
Software audit	ISO 9126, ISO 25000, Balanced scorecard, CMMI, KPI, COCOMO2
Test Tools	Selenium, Puppeteer, SoapUI, Spring Test, JMeter, Gatling, Spock, Cucumber, JBehave, JGiven, JUnit 4 and 5, Mockito, SOAPui
Quality Tools	SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource
Cloud	Google Cloud (GCE, GKE, Pub/Sub, GCB, API), Amazon(S3, EC2, ECK, ECS, ELB, ECR, IAM)
Team management	Agile/Kanban, SAFE, Scrum, Waterfall
Innovation	Research promotion, Innovating ideas, Research project initiator
Programming Languages	Java, JavaScript, TypeScript, C++, C, Groovy, Kotlin, PL/SQL, Delphi
DevOps	Docker, Varnish, Jenkins, Maven, Gradle, Ansible, Kubernetes, QMake/CMake, Nexus, GitLab, GIT
Databases	MySQL/MariaDB, MongoDB, Elasticsearch, Neo4J, Sqlite, OrientDB, Cassandra, OpenTSDB, KairoDB, Oracle
Web/UI	Vue.JS (vuex, vue-router), React-Native, Thymeleaf, Angular 8+, Wicket
Web/Middleware	Spring Boot (Security, Web), CXF, Node.JS, Express, Loopback 3-4
Servers and Infrastructure	Tomcat, Varnish, RabbitMQ, ActiveMQ, Apache2, JBOSS, HAProxy
Web/DAO	Spring Data, Spring JDBC, MyBatis, Hibernate, EhCache, JPA
Machine Learning	DeepLearning4j, Smile, Weka, KNime
Languages	French (Natural), English (C1), German (A2), Russian (A1), Italian(A1)

Experience

SALT SA

SOLUTION ARCHITECT

- LCM; Legacy software migration, Software Technology migration, automated testing
- Java 6/Open JPA -> Spring Boot/Data
- Play Fwk 2 -> Spring Boot/Thymeleaf
- GWT -> SPA/Vanilla JS

Lausanne, Switzerland

Mars 2020 -

Serial SA/ Mobilière

SENIOR SOFTWARE DEVELOPER

Geneva, Switzerland

September 2019 -

- LCM; Legacy software migration, Software Technology migration, automated testing, **Software Craftmanship**
- Handled two software migrations (JBoss 6.4 -> JBoss 7.2, Primefaces, Java 6 -> 11).

GENOMA SA, Esperite Group Affiliate

CHIEF TECHNOLOGICAL OFFICER

Geneva, Switzerland

August 2019 - September 2019

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

FAVEEO SA

CHIEF TECHNOLOGICAL OFFICER

Lausanne, Switzerland

September 2018 - July 2019

- **Stakeholder** on the Product vision, roadmap and strategy and technologies
- 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

AZQORE SA 6 Credit Agricole

SENIOR SOFTWARE QUALITY MANAGER

Lausanne, Switzerland

December 2017 - August 2018

- Software quality and architecture auditor for 100+ developers (Cobol, Java)
- Mainframe and Mainframe middleware experience
 - Cobol code quality, tooling and review
 - Architectural and review of the Java middleware to interconnect Java webapps with the mainframe using 3270's protocol (Screen revamping)
- **Member of the Enterprise Architecture department**
- **Promotion of DevOps practices**, Software quality and cleancode
- Organizer of a **techlead community** inside the Bank

SERIAL SA

SOLUTION ARCHITECT, TECH LEAD

Geneva, Switzerland

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

- Technical director for several product lines : Mainframe product, Software Factory product, DevOps product and Legacy Software migration products
As the technical director, I was involved in many different activities (coding, testing, specification, roadmap etc on various technologies)
- **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.
- **Semester 2016 - Automated Refactoring/Migration of a Financial Editor product : Fircosoft** Automated migration with Metrixware Refactoring framework of the main product of a french TOP 10 Software Editor.
- Mainframe and Mainframe middleware experience
Product owner of the Scort products that offers CICS / Screen middleware to plug Web and mobile apps on the mainframe
Technical direct of the Cobos products : Cobol IDE for the Z serie.
- **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

Extracurricular Activity

Freelance

PERFORMANCE AUDIT FOR AN RESOURCE CRITICAL SYSTEM

Switzerland

2020

Freelance

WRITING A FLEX TO ANGULAR 8 CONVERSION TOOL FOR ESN

Switzerland

2020

Freelance

DESIGN AND BUILD OF A MOBILE APPLICATION FOR A STARTUP PROJECT

- Using React Native, backend Node.JS and Typescript

Switzerland

2019

Freelance for Thalès AVS

SOFTWARE FACTORY AND DEVOPS AUDIT

- Software SDLC and Factory audit for the Thalès AVS Group

Switzerland

2019

Opensource Developer

SONARTSLINT, SONARESLINT PLUGIN

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

Switzerland

PRESENT

HOBBIES

- Being a great father of 3 and a source of inspiration
- Hiking, Cycling, Cooking
- Learning Italian, Russian

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

Byoskill

CLEANCODE TRAINER

- Coaching and training of new Cleancode trainers

France

2019

OCTO

PRESENTER FOR OCTO

- Internal presentation : Why should we love our software ?

Lausanne

July, 2017

SERIAL

PRESENTER FOR SERIAL

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

Geneva

Apr. 2017

Metrixware : cross-company training

CLEANCODE TRAINER

- Cleancode course
- Design pattern course
- Automated testing course

France

2014-2016

Tocea : cross-company training

JAVA/SPRING TRAINER

- Java best practices
- SOA Best practices
- Java software optimizations

France

2012

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

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