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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.

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

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

### **IUT Lannion, University of Rennes 1.**

BACHELOR OF COMPUTER SCIENCES,

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

Lannion, France

Rennes, France

Jun. 2007 - 2004

Jun. 2004 - 2002

Mars 2020 -

## Skills

Cleancode, Web Applications, CQRS/DDD/SOA/REST/Cloud Architectures, Microservices, Batches, MDA Modelers, Code Software skills

and optimization, Compilers

Cobol (code review, code parsing and rewriting in another language), 3270 protocol and Mainframe screen revamping, **Mainframe experience** 

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, Cucumber, JBehave, JGiven, JUnit 4 and 5, Mockito, Postma

**Quality Tools** SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource

Cloud Terraform, 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, Groovy, former C/C++ developer, Delphi

> **DevOps** Docker, Varnish, Jenkins, Maven, Gradle, Kubernetes, 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 \_\_\_\_\_

SOLUTION ARCHITECT

**SALT SA** Lausanne, Switzerland

· Sole Maintainer of the (Legacy) Payment infrastructure

- Payment Service Provider: Datatrans
- · 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
- Junit 5, Cucumber, Selenium

**DECEMBER 16, 2020** SYLVAIN LEROY · CURRICULUM VITAE Serial SA/ Mobilière Geneva, Switzerland

SENIOR SOFTWARE DEVELOPER 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**

Geneva, Switzerland

August 2019 - September 2019

CHIEF TECHNOLOGICAL OFFICER

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

FAVEEO SA Lausanne, Switzerland

CHIEF TECHNOLOGICAL OFFICER

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**

Lausanne, Switzerland

December 2017 - August 2018

SENIOR SOFTWARE QUALITY MANAGER

- 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 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

STAKEHOLDER AND CTO METRIXWARE

Jun. 2014 - Dec. 2016

 Technical director for several product lines: Mainframe product, Sofware Factorw 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 priorize 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 sofware 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** Switzerland

PERFORMANCE AUDIT FOR AN RESOURCE CRITICAL SYSTEM

**Freelance** Switzerland

WRITING A FLEX TO ANGULAR 8 CONVERSION TOOL FOR ESN 2020

**Freelance** Switzerland

2019

DESIGN AND BUILD OF A MOBILE APPLICATION FOR A STARTUP PROJECT

• Using React Native, backend Node.JS and Typescript

Freelance for Thalès AVS Switzerland

SOFTARE FACTORY AND DEVOPS AUDIT 2019

· Software SDLC and Factory audit for the Thalès AVS Group

**Opensource Developer** Switzerland

SONARTSLINT, SONARESLINT PLUGIN

PRESENT • Maintainer of the opensource SonarQube plugin SonarESLint.

· Contributor to some open-source projects.

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

## **Honors & Awards**

## INTERNATIONAL

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

**Presentation** 

**Byoskill** France

CLEANCODE TRAINER 2019

· Coaching and training of new Cleancode trainers

ОСТО 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.

#### **Metrixware: cross-company training** France

CLEANCODE TRAINER 2014-2016

- Cleancode course
- · Design pattern course
- Automated testing course

#### Tocea: cross-company training **France**

JAVA/SPRING TRAINER 2012

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

SYLVAIN LEROY · CURRICULUM VITAE **DECEMBER 16, 2020** 

AFDEL Paris

Presenter for AFDEL/TECH IN France

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

INRIA Workshop Rennes

PRESENTER FOR INRIA WORKSHOP

Sep. 2007

Jul. 2012

• 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