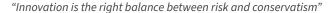


Chemin de Bérée 16B, Lausanne, Switzerland

□ (+41) 76-40-11-931 | Sipb@sylvainleroy.com | Mathtps://sylvainleroy.com | Incomplete of the sylvainleroy of the sylvainleroy.com | Incomplete of the sylvainleroy o





Key Points

- Architect and consultant specialized in information system migration issues and digital transformation.
- 14 years involved in architecture design, architecture review, transformation projects.
- Founder of a company specialized in Software Architecture Assessment and Legacy software modernization (Tocea)
- Participated as an Architect for the bank transformation project in **Azqore** (Integration with a new Cobol middleware)
- Worked a Solution Architect / Techlead consultat for HSBC around a Private Banking Middleware project.
- Worked as a Consultant for several Banks, Insurances, Vendor, Industries.
- Familiar with different technologies and architectures (from Mainframe to Modern architectures)
- Recognized in Switzerland for my ability to help IT teams to organize and perform modernization of their legacy software.
- Still, an experienced developer and recognized Software Craftsman coach.

Education	
AWS SOLUTION ARCHITECT ASSOCIATE CERTIFICATION PEARSON	Online 2023
AWS SYSOPS ASSOCIATE CERTIFICATION PEARSON	Online 2023
INTRODUCTION TO IBMI/RPG LANGUAGE METRIXWARE	Online Jan 2021
ANGULAR 2 TRAINING NINJA SOUAD	Geneve Jan 2017
INTRODUCTION TO COBOL AND 3270 METRIXWARE	Nanterre 2015
STATIC ANALYSIS AND REFACTORING TOOLS, RESEARCH PROJECT INRIA/IRISA	Rennes Jun 2007-2010
PERFORMANCE AND MICRO ARCHITECTURE, MASTER'S PROGRAM	Rennes
BACHELOR OF COMPUTER SCIENCES	Sep 2004-Jun 2007 Rennes
University of Rennes 1	Sep 2002-Jun 2004



SOLUTION ARCHITECT AND SOFTWARE MODERNIZATION

Switzerland

CONSULTANT September 20179 - June 2021

Keyteo - Assura

Technical Leader March 2021 - September 2021

CONTEXT

- · 100+ staff project
- Team 15 people, 1 architects, 2 Techleads, devs / analysts
- Flat hierarchy environment
- Core ERP migration from AS400 to Adcubum Syrius solution

ACHIEVEMENTS

- Functional/Technical specifications, Architecture and Software Design
- Software quality control and best practices
- Agile/Scrum environment

TECHNOLOGIES.

• TIBCO: REST/SOAP environment, Java language

SOLUTION ARCHITECT AND SOFTWARE MODERNIZATION

Switzerland

Consultant Jan 2017 - March 2021

SALT SA

SOLUTION ARCHITECT

March 2020 - March 2021

CONTEXT

- IT Team 30 people, 5 architects, 25 devs / analysts
- Flat hierarchy environment
- Near-shoring in France (15 people)
- 4 Backends, 2 UI had to be migrated from Spring 2/Java 5 to Spring 5, Java 11 using Hexagonal Architecture
- Central payment system: 5 software, one 3rd party provider (Datatrans)
- 3 allocated people + Project manager

ACHIEVEMENTS

- Prepare a technological roadmap and execute the modernization of the Payment system
- One year project, to perform much everything on our own; (automated tests, non-regression, software modernization plus 1 UI rebuilt from scratch)
- Reverse engineering of the legacy system to allow later improvements
- · Coached and trained junior developers.

TECHNOLOGIES

- Java Backend migration : Java 6/Open JPA -> Java 11/Spring Boot/Data
- Frontend/Backend migration: Groovy/Play migration: Play Framework -> Spring Boot/MVC/Thymeleaf
- Frontend migration: GWT -> SPA/Typescript/Webpack/JQuery
- Automated testing: Junit 5, Cucumber, Selenium

La Mobilière

Software Modernization Architect

September 2019 - March 2020

CONTEXT

- Fixed-term employment contract
- Project Migration of 3 Legacy JBOSS/JSF Applications to Jboss 7.2
- Project LCM on existing systems
- Large organization in SAFE: 200 people
- Totally new team dedicated to this project: 7 people
- Time-constrained modernization
- Reverse-engineering and technology architecture impact analysis

ACHIEVEMENTS

- Migration, modernization, and QA performed on time and budget
- Excellent feedback from the stakeholders
- Frequent architecture discussions with the local architecture team

TECHNOLOGIES

- Java Backend migration: JBOSS 6.4->7.2, Java 6 to Java 11 Migration, Spring upgrade, Hibernate Upgrade and JBOSS Drools upgrade
- Frontend migration: Replace Primefaces with the the latest version
- Java Backend migration: Java 8 to Java 11 Migration, Spring upgrade, Hibernate Upgrade and JBOSS Drools upgrade
- Automated testing: Junit 4, Cucumber
- · Methodology: SAFE, SCRUM

FAVEEO SA

CTO/AWS/Cloud Solution Architect August 2018 - August 2019

CONTEXT

- Small Organization Environment
- Personal challenge to bring innovation
- Principal Architect, Lead Dev
- OKR/KPI oriented organization with strong budget and business incentives
- Multi-cultural environement

ACHIEVEMENTS

- https://essentials.news
- https://sylvainleroy.com/upload/videoscript-7fc1ccef88.mp4
- Architecture Design and development of an innovative Al prediction system to detect future viral newspaper articles
- Architecture Design and development of an innovative system to generate Video using newspaper articles and AI
- Architecture Design an Automated Al generated mailing using Mailchimp, Elasticsearch and Java 11
- Achieved the technological and innovation goals for the company.

TECHNOLOGIES

- Event Architecture, Pipeline, Messaging using RabbitMQ
- · Java, Spring Boot, DeepLearning4j, Smile, Docker
- Vue.js, Spring Boot, RabbitMQ; Docker, MongoDB, Elasticsearch, OpenNLP
- Pure Cloud Player : AWS Environment
- Mail generation system using Node.JS, Java 8, Spring Boot and Mailchimp

GHI, GSK, HSBC

Solution Architect, Tech Lead

September 2019 - March 2020

CONTEXT

- 3 Projects, two offsite, one onsite
- Generally in Scrum/Agile teams
- Architect role directly with the GSK/Novartis Upper Architecture management
- Solution Architect / Delivery control in a complex delivery environment for HSBC
- As Product Owners of the Bank Middleware system, really high stability and performance expected from the Architecture team
- Offshore with India and China: architecture, coaching, delivery, review, first level of technical support

ACHIEVEMENTS

- 1st Trimester 2017 GHI: Software Quality Assessment and Performance testing
- 2nd Trimester 2017 GSK Novartis: Modernization of the Drug Packaging system
- TechTalk: Speaker: "Why developers should care about quality?"
- HSBC Private Banking: member of the Architecture/Middleware team: performed several deliveries and go live in a multicultural / distributed environment

TECHNOLOGIES

- GHI: Spring and Angular technologies, Okta authentication, JMeter and Gatling
- GSK: W4 Business engine, Docker, Jenkins, Oracle, Java, Javascript, JSP, Tomcat, Apache, Gradle, JIRA, Bamboo
- HSBC : Avaloq, Ansible, Jenkins, Spring, REST, SOAP, MQ, WebSphere

STAKEHOLDER AND CTO Rennes, Nanterre

Jun 2014 - Dec 2016

METRIXWARE/TOCEA

CONTEXT

- Mergers between two companies (20 + 15 staff)
- Three sites: Paris, Rennes, Montreal
- Two very different cultures: 25 years, 50+ years
- Technology director for several product lines: Mainframe product, Software Factory product, DevOps product and Legacy Software migration products
- Principal Consultant for Key Accounts
- · 50+ Active customer references France and International: insurances, banks, administrations, industries

ACHIEVEMENTS

- Creation of a profitable activity around Software Modernization consulting
- Built the renown of the company over Software Factory and Devops Expertise
- · Increased the company renown for its Technology/Architecture Roadmap and Software Assessment
- · Launched successfuly an KPI/DevOps Dashboard solution to track Devops initiative ROI
- Acquired a knowledge of the IBMz and IBMi challenges and integration issues with the Digital ecosystem
- · Software Modernization Project Modernization program of the Swift Transfer Product for Fircosoft, Accuity
- Software Modernization Project Modernization program and transformation of the C/C++ Indexation Engine for SoLocal/Pages Jaunes
- Software Modernization Project Modernization program of 7 applications for INSEE
- · Software Modernization Project Modernization program of core Logistic Product for SIGMA informatique
- Software Modernization Project Modernization program of the Orange's Webmail
- Software Modernization Assessment Architecture and Technology Roadmap for DGAC ministry
- Software Modernization Assessment State Council
- Software Quality Assessment Economy and Budget Ministry
- Software Modernization Assessment Canadian Promutuel
- Software Quality Assessment and Postmortem Delegated Software Quality Expert for the French Ministry of Environment
- Digital Transformation Roadmap for AXA software built over IBMz AXA
- Software Modernization Assessment C/C++ SEPA Payment system for Cedricom
- IT Organization and Software Assessment Campus France

TECHNOLOGIES

MAY 13, 2023

- Proprietary Modernization framework and tools
- Eclipse Modeling and Framework
- Java ecosystem

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TOCEA Mar. 2011 - Jun. 2014

CONTEXT

- 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
- Won the National Emerging Industry Innovation price in 2011 and 2012
- Built a team from 0 to 20, created a local branch in Montreal
- Technology director for two product lines: Software Quality Product and Software modernization product
- Principal Consultant for Key Accounts
- · 50+ Active customer references France and International: insurances, banks, administrations, industries

ACHIEVEMENTS

- · 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 company, 60 Developers, 20 QA Modernization of S@H Software Factory and build Test Automation coach, and Requirements analysis

TECHNOLOGIES

- Proprietary Modernization framework and tools
- Eclipse Modeling and Framework
- · Java ecosystem

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

Rennes

- 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



PROGRAMMING SKILLS

Programming Languages Java 8,11+, JavaScript, TypeScript, Groovy

> Web/UI Vue.JS (vuex, vue-router), , Angular 8+, React-Native, Thymeleaf, JSF, Wicket **Frameworks** Spring Boot, Spring 5, CXF, MyBatis, Hibernate, Node.JS, Express, Loopback 3-4

Machine Learning DeepLearning4j, Smile, Weka, KNime

> **Test Tools** Selenium, Puppeteer, SoapUI, Performance tooling, Cucumber, JBehave, JUnit 5/4, Mockito, Postman

ARCHITECTURE SKILLS

Software Architecture Cleancode, CORS, DDD, Hexa/Clean Architectures, Microservices

> Cloud Terraform, Google Cloud (GCE, GKE, Pub/Sub, GCB, API), Amazon(S3, EC2, ECK, ECS, ELB, ECR, IAM)

SAAS Services DataTrans, Google API, Mailchimp, Mailjet, Auth0, Stripe

Legacy Software migration Cloud Software migration (Monoliths), Test Automation, 12 Factors, Source-to-source expert

Mainframe experience Cobol (Code review), Java - Mainframe Integration (3270, Messaging) Databases MySQL/MariaDB, MongoDB, Elasticsearch, Neo4J, Sqlite, Oracle

Platform services Tomcat, Varnish, RabbitMQ, ActiveMQ, JBOSS Keycloak, Apache2, JBOSS, HAProxy

SOFT SKILLS

Team management 20+ IT staff management, Product Owner, Roadmap, Agile/Kanban, SAFE, Scrum, Waterfall

Software Quality Assurance ISO 9126, ISO 25000, Balanced scorecard, CMMI, KPI, COCOMO2

> **Quality Tools** SonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensource Innovation Research promotion, Innovating ideas, Research project initiator Languages French (Natural), English (C1), German (A2), Russian (A1), Italian(Beginner)

Extracurricular Activity

FREELANCE France, Germany, Switzerland

CONSULTANCY

 Performance Audit for a Critical System of a Saas company Software Modernization Project Modernization program of Logistic Product for Nexter Military Equipment

- Design and development of an automated Adobe FLEX to Angular 8/9 conversion tool
- Design and development of an automated RPG4 to RPG 8 conversion tool
- Java 5 -> Java 11 Software Modernization for a Land Defense Leader in France and Europe

FREELANCE Switzerland

DESIGN AND BUILD OF A MOBILE APPLICATION FOR A STARTUP PROJECT

Using React Native, backend Node. JS and Typescript

FREELANCE FOR THALES AVS France

SOFTARE FACTORY AND DEVOPS AUDIT

• Software SDLC and Factory audit for the Thalès AVS Group

OPENSOURCE DEVELOPER Switzerland

SONARTSLINT, SONARESLINT PLUGIN

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

HOBBIES

- · 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

2012 Finalist, Innovation award from the French Ministry of the Industry (Emergence)

Laureate, Phar Fund laureate 2011

Paris, France Paris, France Rennes

2019

2019

PRESENT

Presentation

BYOSKILL

KEY SPEAKER FOR THE SCALEUP 360 LEGACY IT EUROPE CONFERENCE • Big bang or iterative evolution: my hands-on experience. **BYOSKILL France** CLEANCODE TRAINER 2019 · Coaching and training of new Cleancode trainers **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. **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 **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

Switzerland

Jan 2017 -Now

Sep. 2015 - Nov. 2015

BLOG WRITER Switzerland

DIGITAL TRANSFORMATION REFACTORING

· 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

• Exhaustive WhitePaper on Software requirement domain and requirement software market

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