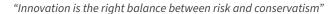


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Key Points

- Architect and consultant specialized in information system migration issues and digital transformation.
- 14 years involved in software migration projects, tools and methods.
- Founder of a company specialized in legacy software modernisation (Tocea) and Software quality
- Carried out numerous assessments for Ministries, banks, insurance companies, software publishers...some with famous groups as BearingPoint.
- Has been the CTO of a Software Editor that published solutions to modernize IBMz / IBMi
- Advised and participated in the bank transformation project for **Azqore** (Integration with a new Cobol middleware)
- 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.
- Dedicated about the problems of handling legacy software since 2007

NTRODUCTION TO IBMI/RPG LANGUAGE	Online
METRIXWARE	Jan 202.
Angular 2 Training	Genev
DAUQ2 ALNIN	Jan 20.
Introduction to Cobol and 3270	Nanter
Metrixware	20.
STATIC ANALYSIS AND REFACTORING TOOLS, RESEARCH PROJECT	Renne
INRIA/IRISA	Jun 2007-20.
PERFORMANCE AND MICRO ARCHITECTURE, MASTER'S PROGRAM	Renne
University of Rennes 1	Sep 2004-Jun 200

University of Rennes 1 Sep 2002-Jun 2004



LZLABS GMBH Zurich, Switzerland

TEAM LEADER September 2021 - current

CONTEXT

- · LzLabs is a software company that develops innovative solutions for enterprise computing customers including its LzLabs Software Defined Mainframe
- Team 3 people
- Flat hierarchy environment
- · 60+ developers
- Pre-sales and Post-sales interactions
- Customer facing position: requirements collect, trainings, workshops

ACHIEVEMENTS

- Product owner and technical leader of a product portfolio
 - SCA: Source code analyzers for mainframe technologies
 - Workbench: Eclipse / VSCode IDE for Mainframe programmers with a full set of features
 - Workbench Server: remote compilation / execution for Cobol/PLI programs
- DevOps architect: participating workshops, trainings of Mainframe users
- · Coached and trained junior developers.

TECHNOLOGIES

- SCA: Java, Compiler technologies (ANTLR, Regexp), JUnit, XML, Maven
- Workbench: Eclipse technologies (SWT, Java), HTTP Client, JUnit, Picocli, Maven
- Workbench Server: Spring Boot, Spring web, Spring authentication
- LzTestManager: GWT/ Spring / Spring Boot + Mainframe technologies

SOLUTION ARCHITECT AND SOFTWARE MODERNIZATION

Switzerland

CONSULTANT September 20179 - June 2021

KEYTEO - ASSURA Lausanne, Switzerland

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 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

SERIAL SA/ MOBILIÈRE

SOFTWARE MODERNIZATION ARCHITECT

Nyon, Switzerland

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

CHIEF TECHNOLOGICAL OFFICER

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 Al
- Architecture Design an Automated AI 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

AZQORE SA / CREDIT AGRICOLE

SOFTWARE QUALITY MANAGER, SOFTWARE MODERNIZATION ARCHITECT

Lausanne, Switzerland

December 2017 - August 2018

CONTEXT

- · Hired as Software quality and architecture auditor to control every delivery (Cobol, Java, Mobile...)
- Worked under the Principal Architect and inside the Enterprise Architecture team: 5 people
- Unofficially requested as Solution / Modernization Architect on several projects
- Two different cultures: IBMz IT and Digital IT
- Inshore, nearshore(France), offshore(Singapour) developments
- Strict ISO process for Document and communications

ACHIEVEMENTS

- Architect role on the integration project of a Cobol middleware with Digital ecosystem.
- Intervened as a Solution Architect on critical production issues
- $\bullet \ \ \text{Mission with the Application Management to define and broadcast Application monitoring best practices}$
- Creation of a TechLead community inside the Bank
- · Participated on some GDPR questions especially about system reverse engineering to secure customer data

TECHNOLOGIES

- IBMz, Microfocus, IBM Websphere, IBM MQ
- Enterprise Architecture ARIS, Quality tools and Software Factory
- WSO2, ManageEngine AppManager, Dynatrace
- Java (JSF, Spring), Angular...

January 2017 - December 2017

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: Avalog, Ansible, Jenkins, Spring, REST, SOAP, MQ, WebSphere

METRIXWARE/TOCEA

STAKEHOLDER AND CTO

Rennes, Nanterre

Jun. 2014 - Dec. 2016

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

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

COFOUNDER AND CTO TOCEA/Echoes Labs

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

INRIA/IRISA Rennes

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

Sep. 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



RECENT SKILLS

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

Web/UI Vue.JS (vuex, vue-router), Angular 8+, GWT, EJS

Frameworks Spring Boot, Spring 5, JPA, Hibernate, Nuxt.JS, Node.JS, Express **Test Tools** Selenium, SoapUI, Cucumber, JUnit 5/4, Mockito, Postman

Software Architecture Cleancode, CQRS, DDD, Hexa/Clean Architectures, Microservices, Archimate

Cloud Google Cloud (GCE, GKE, Pub/Sub, GCB, API)

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 Oracle, PostgreSQL

Platform services Tomcat, Apache2, HAProxy

EXPERIENCE

Programming Languages C/C++ (5 years), PHP (1 year), Kotlin(beginner)

Web/UI React-Native, Thymeleaf, JSF, Wicket

Frameworks Struts, Loopback 3-4

Machine Learning DeepLearning4j, Smile, Weka, KNime

Test Tools JMeter, Gatling

Cloud Terraform, Amazon(S3, EC2, ECK, ECS, ELB, ECR, IAM)

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

MySQL/MariaDB, MongoDB, Elasticsearch, Neo4J, Sqlite, Oracle

Platform services Varnish, RabbitMQ, ActiveMQ, JBOSS Keycloak, JBOSS

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 ToolsSonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensourceInnovationResearch promotion, Innovating ideas, Research project initiator

Languages French (Natural), English (C1), German (A2), Russian (A1), Italian(Beginner)

Extracurricular Activity

https://salaire-en-suisse.ch

Switzerland

2021

BUILD A DEMO PROJECT FOR NUXT; JS• Using GCP, Nuxt.JS, Vue, Mongo

FreeLance France, Germany, Switzerland

CONSULTANCY

2020-202

- Trainer (Gradle, JUnit, ...)
- 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

2019

• Using React Native, backend Node.JS and Typescript

Freelance for Thalès AVS France

SOFTARE FACTORY AND DEVOPS AUDIT

riunce

• 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.

HOBBIES

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

Honors & Awards

INTERNATIONAL

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

Presentation

BYOSKILL Switzerland

2020

2012

Jul. 2012

Jan 2017 -Now

8

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

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

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

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

• Source-to-source technics for Java software optimizations

Writing

BLOG WRITER Switzerland

· Blog on various subjects: Code quality, refactoring, Enterprise Architecture, Digital Transformation

• https://sylvainleroy.com

DIGITAL TRANSFORMATION REFACTORING

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

Sep. 2015 - Nov. 2015

SOFTWARE REQUIREMENTS: A COMPLETE GUIDE AND MARKET STUDY

• Exhaustive WhitePaper on Software requirement domain and requirement software market

JULY 20, 2022 SYLVAIN LEROY · CURRICULUM VITAE 9