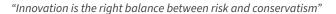


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Key Points

- 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

GOOGLE CLOUD SOLUTION ARCHITECT COURSE	Online
COURSERA	Feb 2021 - On going
INTRODUCTION TO IBMI/RPG LANGUAGE	Online
METRIXWARE	Jan 2021
Angular 2 Training	Geneve
DAUDS ALNIN	Jan 2017
Introduction to Cobol and 3270	Nanterre
METRIXWARE	2015
STATIC ANALYSIS AND REFACTORING TOOLS, RESEARCH PROJECT	Rennes
INRIA/IRISA	Jun 2007-2010
PERFORMANCE AND MICRO ARCHITECTURE, MASTER'S PROGRAM	Rennes
University of Rennes 1	Sep 2004-Jun 2007

BACHELOR OF COMPUTER SCIENCES

Rennes University of Rennes 1 Sep 2002-Jun 2004

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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

SALT SA Renens, Switzerland

March 2020 - March 2021

SOLUTION ARCHITECT

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.

- 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

SOFTWARE MODERNIZATION ARCHITECT

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

CHIEF TECHNOLOGICAL OFFICER

Lausanne, Switzerland

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 AI generated mailing using Mailchimp, Elasticsearch and Java 11
- Achieved the technological and innovation goals for the company.

- 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

December 2017 - August 2018

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- · 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

SOFTWARE QUALITY MANAGER, SOFTWARE MODERNIZATION ARCHITECT

• 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
- · 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...

SERIAL SA

SOLUTION ARCHITECT, TECH LEAD

Geneva, Switzerland

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

- 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

STAKEHOLDER AND CTO

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

TOCEA

COFOUNDER AND CTO TOCEA/ECHOES LABS

Rennes, Quebec

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

- 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



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, CQRS, 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 experienceCobol (Code review), Java - Mainframe Integration (3270, Messaging)DatabasesMySQL/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 ToolsSonarQube, Squale, Kiuwan, Codacy, Klocwork, Coverity + opensourceInnovationResearch promotion, Innovating ideas, Research project initiatorLanguagesFrench (Natural), English (C1), German (A2), Russian (A1), Italian (Beginner)

Extracurricular Activity

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 Thalès 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

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

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 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 **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

Sep. 2016 - Dec. 2016

Sep. 2015 - Nov. 2015

BLOG WRITER Switzerland Jan 2017 -Now

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? · 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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