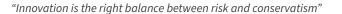
Switzerland

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Key Points

- Architect and consultant specialized in cloud migration issues and legacy software modernization.
- 15+ years involved in software migration projects, tools and methods.
- Solution Architect specialized in Migration and Software Modernization for Amazon Web Services.
- Multiple certifications in AWS technologies
- · Founder of a company specialized in legacy software modernisation (Tocea) and Software quality
- Worked for several industries and sectors as public organizations, banks, insurances, ISV...
- Several times CTO (ISV, Startup, company registered in Netherlands stock market)
- Recognized for my ability to help IT teams to organize and perform modernization of their legacy software.
- Coach and tutor in various IT domains (Software Craftmanship, Cleancode, Software programming)

Education

GCP ASSOCIATE CLOUD ENGINEER CERTIFICATION PEARSON	Online 2023
AWS SOLUTION ARCHITECT PRO CERTIFICATION PEARSON	Online 2023
AWS DEVOPS PRO CERTIFICATION PEARSON	Online 2023
AWS DEVELOPER ASSOCIATE CERTIFICATION PEARSON	Online 2023
AWS DATABASE SPECIALITY CERTIFICATION PEARSON	Online 2023
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 SQUAD	Geneve Jan 2017
INTRODUCTION TO COBOL AND 3270 METRIXWARE	Nanterre 2015

STATIC ANALYSIS AND REFACTORING TOOLS, RESEARCH PROJECT

INRIA/IRISA

RennesJun 2007-2010

PERFORMANCE AND MICRO ARCHITECTURE, MASTER'S PROGRAM

University of Rennes 1

Rennes Sep 2004-Jun 2007

BACHELOR OF COMPUTER SCIENCES

Rennes

University of Rennes 1 Sep 2002-Jun 2004



AMAZON WEB SERVICES

Lausanne, Switzerland

January 2023 - Present

CONTEXT

• Amazon Web Service is the largest and most mature Cloud Service Provider.

SPECIALIST SOLUTION ARCHITECT IN MIGRATION AND APP MODERNIZATION

- Part of a team of specialists in charge of data center migrations and Application modernization
- Activity on EMEA (Austria, Germany, Switzerland, East Europa, Dubai, France, Belgium, Ireland)

ACHIEVEMENTS

- Data center migration for a Swiss private bank
- Expertise in GCP to AWS migration (TCO, Architecture and Service mapping)
- Build an IOT POC for a swiss customer to deploy an edge solution on vessels
- · Obtained six AWS certifications in one year SAA, SA Pro, DEVA, SysAdmin, DevPro, Database speciality
- Obtained one GCP certification : ACE
- Worked for 25 customers in six months, won one migration project >1m\$ ARR
- Delivered one migration guide for Firebase to AWS impacting more than 100 SA worldwide
- Delivered two Twitch sessions, two public recorded videos, participated to 4 summits, delivered one public talk

TECHNOLOGIES

- Amazon Web Services technologies: AWS Cognito, AWS IAM, AWS IOT Greengrass v2, AWS IOT Core, AWS SSM, DynamoDB, Lambda, MySQL, MongoDB
- Infrastructure as a code: CDK
- Operating systems : Linux

LZLABS GMBH

Zurich, Switzerland

Septembre. 2021 - Dec. 2022

PRODUCT OWNER / SOLUTION ARCHITECT

CONTEXT

- tLzLabs we help you modernise your mainframe applications in your preferred environment.
- Flat hierarchy environment
- 60+ developers
- Customer facing position: requirements collect, trainings, workshops
- ISV specialized in Mainframe Modernization with unique technologies
- In charge of 3 products: an Mainframe IDE, a test automation software to help Mainframe migrations and a Mainframe migration tool
- Handled a team of specialists of 3 people
- Architect Responsible of the design, architecture and evolution of 3 products
- Product owner: Business analysis, customer first advocate, product design

ACHIEVEMENTS

- Delivered several releases of th Workbench IDE in one year
- Handled the product discovery and the development of a new Mainframe migration product
- Assisted two customers to migrate from their Mainframe
- Handled the replacement and the transition to a new development team

TECHNOLOGIES

- · LzLabs SDM
- Mainframe technologies : Cobol, JCL
- 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

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.

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 Nyon, Switzerland

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

September 2019 - March 2020

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 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

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...

SOLUTION ARCHITECT, TECH LEAD

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



CLOUD ARCHITECT

Google Cloud GCE, GKE, Pub/Sub, GCB, API Amazon Web Services Solution Architect, SysOps, DevOps

MAINFRAME AND LEGACY

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

Mainframe experience Cobol, JCL, (Code review), Java - Mainframe Integration (3270, Messaging)

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

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

Databases 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 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 2020-2022

• 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

2019

France

DESIGN AND BUILD OF A MOBILE APPLICATION FOR A STARTUP PROJECT

• Software SDLC and Factory audit for the Thalès AVS Group

Using React Native, backend Node. JS and Typescript

FREELANCE FOR THALÈS AVS

SOFTARE FACTORY AND DEVOPS AUDIT 2019

JANUARY 5, 2024 SYLVAIN LEROY · CURRICULUM VITAE **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

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

Presentation

AWS INNOVATE 2023 Worldwide

HOW TO BUILD YOUR BUSINESS CASE FOR A CLOUD MIGRATION?

AWS + TECHFIRM CONFERENCE Geneva, Switzerland

AWS AND SAP: HOW TO MIGRATE? 2023

BYOSKILL Switzerland

KEY SPEAKER FOR THE SCALEUP 360 LEGACY IT EUROPE CONFERENCE

• Big bang or iterative evolution: my hands-on experience.

BYOSKILL France

CLEANCODE TRAINER

• 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 • 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

2020

2019



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

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• Exhaustive WhitePaper on Software requirement domain and requirement software market