

# Patrice Ferrot

38 years old – Swiss – Married

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## LEAD SOFTWARE ENGINEER

### Profile

- Software engineer with a passion for solving complex problems with open source technologies.
- Fourteen years of experience designing, implementing and operating sophisticated web applications, cloud services and distributed systems built using technologies from the Java ecosystem in particular.
- Strong leadership capabilities with experience in different environments (software architect at a large multinational tech company, technical lead and then head of development in a small SaaS company).

### Areas of expertise

Software architecture and development  
Distributed systems  
Microservices  
Backend  
Web applications/services

Technical leadership  
Cloud  
CI/CD  
Containers  
DevOps

### Professional experience

#### Localization Platform Architect

May 2014 - Present

##### Autodesk

- Lead engineer / platform architect in the Localization Solutions (LS) department, reporting directly to senior management.
- Defined the entire architecture of the Localization Platform and decided on the technologies to use (after prototyping).
- Introduced and promoted key principles, technics and tools which allowed to reduce risk, augment agility, improve quality and ultimately deliver more business value:
  - Move to a microservices-based architecture (includes promoting patterns and technics to optimize availability and resiliency, use of event sourcing and CQRS).
  - Adoption of CI/CD.
  - Package and ship tools and services as Docker images.
  - Deploy and run tools and services on a Mesos/Marathon cluster.
  - Adoption of DevOps principles.
- Supervision of all development activities.
- Implemented the first production version of several microservices.
- Developed training material / documentation and gave multiple courses to enable developers (in-house as well as contractors) to contribute in building the Localization Platform.
- Main tools and technologies: Scala, Java, Python, Node.js, Akka, Cassandra, Kafka, Docker, Mesos/Marathon, RabbitMQ, StatsD, Grafana, AWS, Git, Jenkins.

## **Globalization Systems Programmer/Analyst**

**Nov 2011 - Apr 2014**

### **Autodesk**

- Lead software engineer in the Publishing Technologies team of the Localization Solutions department.
- Architecture and development of new components based of business needs.
- Analysis and suggestion of process enhancements.
- Defined the technical architecture and developed an innovative connector for exporting/localizing/importing Adobe AEM content through SDL WorldServer.
- Architected and implemented the first Autodesk Localization Solutions cloud services on AWS (real-time translation, translation widget, collaborative/crowd translation).
- Second level support.
- Main tools and technologies: Java, Tomcat, Oracle, WorldServer, AWS, DynamoDB, EC2, Node.js, Adobe AEM.

## **Head of Development**

**Jan 2010 - Mar 2011**

### **Vertical\*i SA (acquired by Inova Software SA)**

- Responsible for the good delivery of the Vertical\*i Application Suite, a web-based application offering collaboration tools to identify, track and monetize innovative intangible assets. Customers: large life science companies (GSK, Sanofi-Aventis, Roche, Boehringer, Abbott, ...).
- Management of all technical developments.
- Team leadership (5 to 10 individuals).
- Main contact person for project managers: translation of customers' requirements into technical specifications.

## **Team Leader**

**Mar 2008 - Dec 2009**

### **Vertical\*i SA (acquired by Inova Software SA)**

- Leading the team building custom solutions using the Vertical\*i Application Platform (VAP).
- Team leadership (3 to 5 individuals).

## **Java/J2EE Engineer**

**Nov 2006 - Feb 2008**

### **Vertical\*i SA (acquired by Inova Software SA)**

- Development of new functionalities and maintenance of the Vertical\*i Application Platform (VAP).
- Main tools and technologies: Java, Kodo, Struts, Tomcat, Oracle, SQL Server, Ant, SVN, Jira, Eclipse.

## **Java/J2EE Engineer**

**July 2005 - Mar 2006**

### **CISEL Informatique SA**

- Development of new functionalities and maintenance of Spontis, platform for Swiss electricity providers (Romande Energie, Groupe E, BKW) to centralize purchasing.
- Main tools and technologies: Java, JDBC, Spring, Weblogic, Oracle, SourceSafe, Eclipse.

## **Junior Java/J2EE Engineer**

**July 2004 - June 2005**

### **AccessArena SA (Kudelski Group)**

- Development of new functionalities and maintenance of an online ski ticket system enabling users to buy tickets from home instead of queuing in ski resorts.
- Main tools and technologies: Java, EJB, JBoss, Oracle, Ant, CVS, IntelliJ IDEA, Eclipse.

## **Freelance**

**Mar 2004 - May 2004**

### **Trigam SA**

- As a young graduate, development of Java Applets for Trigam SA - company active in the field of board games.
- Main tools and technologies: Java, Applets, Eclipse.

## Education

<b>HES Engineer in Computer Science (software)</b> University of Applied Sciences Western Switzerland (HEIG-VD)	<b>2000 - 2004</b>
<b>Computer science training period</b> ETSC, Sainte-Croix	<b>1999 - 2000</b>
<b>Federal maturity, scientific type</b> CESSNOV, Yverdon-les-Bains	<b>1995 - 1998</b>

## Certifications

Principles of Reactive Programming (Coursera)	2015
Functional Programming Principles in Scala (Coursera)	2014
Certified Scrum Master (Scrum Alliance)	2014
Certified Business Component Developer for J2EE 1.3 (Sun)	2006
Certified Programmer for the Java 2 Platform 1.4 (Sun)	2005

## Recent courses

Ethereum : Decentralized Application Design & Development (Udemy)	January 2018
Architecting on Amazon Web Services (AWS)	November 2017
Amazon Web Services Technical Essentials (AWS)	October 2017

## Languages

French	Mother tongue
English	Full professional proficiency
German	Limited working proficiency (ZMP certification)