

Patrice Ferrot

39 years old – Swiss – Married

Contact me on LinkedIn: <https://www.linkedin.com/in/patriceferrot/>

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
Big data
Web applications/services

Technical leadership
Cloud
CI/CD
Containers
DevOps

Professional experience

Senior Big Data Engineer

Oct 2018 - Present

Swisscom

- Senior engineer in the Data, Analytics & AI department, working on one of the largest data lake in Switzerland.
- Development of APIs, services and automations powering Swisscom self-service big data platform.
- Backlog grooming with other members of the scrum team.
- Proposed and implemented build system enhancements to enable Continuous Deployment of microservices.
- Following security best practices for building secure components in a highly secure environment containing sensitive data.
- Infrastructure as Code: using Ansible to manage and provision all servers.
- Main tools and technologies: Java, Maven, Hadoop (HDFS, YARN, Hive, Ambari, Ranger, Knox), Kubernetes, Docker, Kafka, Prometheus, Git, Bitbucket, Jenkins, Ansible, Kerberos.

Localization Platform Architect

May 2014 - July 2018

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

HES Engineer in Computer Science (software)**2000 - 2004**

University of Applied Sciences Western Switzerland (HEIG-VD)

Computer science training period**1999 - 2000**

ETSC, Sainte-Croix

Federal maturity, scientific type**1995 - 1998**

CESSNOV, Yverdon-les-Bains

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)