# Erika Silva Balocchi

## Software Engineer

+33 7 67 51 74 19          erika.f.silva.b@gmail.com          cl.linkedin.com/in/erikasilvab          Évry, France

## Profile

Civil Engineering in Computer Science degree from University of Chile, with experience in software engineering performing requirements specification, designing, development and maintenance tasks in a variety of work environments. In addition to research and development in Hadoop ecosystem.

Ability to work in team with focus on adding value and solve challenges efficiently, capacity to adapt to new environments and self-management with a positive attitude and willingness to learn.

## Experience

**Research Engineer,** Télécom SudParis
January 2018 - Present, Évry
Working for MEASURE project, whose goal is to increase the quality and efficiency as well as reduce the costs and time-to-market of software engineering in Europe, by implementing a comprehensive set of tools for automated and continuous measurement.

**R&D Engineer II,** Synopsys
October 2016 - December 2017, Santiago
Member of Custom Designer R&D team, working on infrastructure with OpenAccess design database in order to ensure data interoperability.
Developing an IC Compiler II translator, providing a link between Custom Designer tools (OpenAccess based) and ICC II tools (NDM based).

**Java Software Developer,** Adepta Gestión
April 2014 - August 2016, Santiago
Software requirements specification, designing and development of a production system, covering different stages of the copper mining process. It went from different Excel spreadsheets per plant to a centralized online system that keeps production of each plant and mine and generates reports automatically.
Based on Java technologies, Vaadin and Oracle database.
Design and development of system that calculates solidary retirement score for Chilean's pension system. Based on Java, Oracle databases, weblogic.

**Thesis,** Penta Analytics
August 2013 - April 2014, Santiago
"Analysis and Comparison between the Columnar Oriented Database Infobright and Hadoop framework in scenarios of analytics databases"
Thesis project based on the comparison between infobright and Hadoop in analysis of data from Penta Analytics's data warehouse.
I had to install and configure a Hadoop cluster in the cloud (AWS) where comparative tests with different configurations and sets of data were performed.

**Part-time Software Developer**, Penta Analytics
January 2012 - April 2014, Santiago
Part time job developing a content management system (CMS) for National Copper Corporation, based on Python (Django) and using MySql databases.

**Software Developer (University Course)**, Fundación Ciudadano Inteligente
October 2011 - January 2012, Santiago
Development of an legislative API to provide online access to Chilean congress data, based on Java.

**Software Developer (Internship)**, Guadaltel
March 2011 - May 2011, Seville
Internship. Support development for the public administration system of Andalusia, Seville.

**Assistant professor**, University of Chile
March 2010 - July 2010, Santiago
Assistant professor of Software Engineering University course.

**Assistant professor**, University of Chile
March 2010 - July 2010, Santiago
Assistant professor of Informatics II course.

## Education

**Civil Engineer in Computer Science** - University of Chile, 2013

Thesis: "Analysis and Comparison between the Columnar Oriented Database Infobright and Hadoop framework in scenarios of analytics databases "

**B.S. in Computer Science** - University of Chile, 2010

## Languages

**Spanish :** Native

**English :** Professional proficiency. Scored 975 (out of 990) on the Test of English for International Communication (TOEIC).
**French:** Beginner

## Skills

**Languages** : Java/JEE, Python, C, C++

**Hadoop Ecosystem** MapReduce, HDFS, Hive, Pig, Sqoop, Impala

**Databases :** MySQL, PostgreSQL, Oracle DB

**Web :** PHP, Javascript, CSS