

# Nicolas Rey

*Scala Developer - Big Data*

76 rue de l'Ouest

75014 Paris

☎ +33 6 26 09 05 07

✉ nicolas.rey.3k.pro@gmail.com

## Education

Sept. 2014 **Spark Training**, *Lateral Thoughts*, Paris.

- Spark Core
- Spark SQL
- Spark Streaming

2008 - 2012 **École Centrale de Nantes - Software engineering specialization**, *Generalist engineering school*.

The *École Centrale de Nantes* is a well known French engineering school recognized by the *Ordre des ingénieurs du Québec*. The degree delivered is equivalent to a *4 years specialized Baccalaureat* in Quebec.

## Languages

French **Native**

English **Fluent (ToEIC : 885), working in English**

Spanish **Notions**

Russian **Notions**

## IT skills

Languages	<b>Scala</b> , Java, JavaScript, Bash (basics)
Big Data ecosystem	Spark, Kafka, HDFS, Cloudera
Scala ecosystem	Play 2!, Akka (basics)
Java ecosystem	Spring (MVC, Core)
Web ecosystem	ReactJS, Bootstrap, HTML5/CSS3
Code management	SBT, Maven, Jenkins, Git
Data bases	Cassandra, MongoDB
System	GNU/Linux, Ansible, Docker, Vagrant

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## Experiences

2012 - 2017 **Scala/Java Software Engineer - Big Data**, *Lateral Thoughts*, Paris.

4,5 ans Development services. I have been working there since I finished my studies.

- Self organized development services company, with no chief nor hierarchy
- The running and development of the company is handled by every employee
- Total freedom of the employees
- High sense of responsibilities

**Environment :** *Scala, Java, Spark*

2016 - 2017 **Scala Software Engineer - Big Data**, *Pages Jaunes*, Paris.

7 mois Redesign the applications regarding audience data of Pages Jaunes with Spark

- Development of several applications to ingest and valorize data
- Building the software factory (Jenkins, Sonatype Nexus)
- DevOps : deployment with Ansible, pipeline of jobs with Jenkins
- Training the team to Scala, Spark, and to work with Agile methods

**Environment :** *Scala, Spark, HDFS, Cloudera, Avro, Parquet*

**Project management :** *Agile methods*

**Company :** *Pages Jaunes is a search engine of professionals. About 5 millions daily users.*

2015 - 2016 **Scala Software Engineer - Big Data**, *Carrefour*, Paris.

10 mois Development of the real time data lake for Carrefour

- Ingestion in Kafka of multiple data sources
- Computing the data with Spark Streaming
- Normalizing the data in avro format
- Storage of the data in HDFS and Cassandra
- Development of APIs with Spray to access the data
- The platform was splitted between a Mesos cluster and a Cloudera cluster

**Environment :** *Scala, Spark, Mesos, Akka, Cassandra, Kafka, HDFS, Cloudera, Spray, Avro*

**Company :** *Carrefour is a major big distribution company. 5600 retail stores in France.*

2014 - 2015 **Scala/Java Software Engineer**, *Vidal*, Paris.

1 an Software development for the medical drug industry

- Development of a tool in Scala and Akka to manage updates of a heavy client
- Development of HATEOAS RESTful APIs on a medical database
- Development of a BDD testing project with Cucumber

**Environment :** *Scala, Java, Akka, Guava, Spring, Hibernate, Cucumber, Github, Docker*

**Gestion de projet :** *Agile methods / Scrum*

**Company :** *Vidal is the French leader of medical drug data.*

2014 **Java Software Engineer**, *SACEM*, Paris.

9 mois Redesign of several declaration and payment web sites

- Backend development in Java and Spring. Heavy use of Guava.
- Frontend development in JavaScript and ReactJS
- Interface testing with Fluentlenium
- Development of a tool with RabbitMQ in order to handle the underlying database unavailability
- Use of Git and Jenkins for code management

**Backend Environment :** *Java, Guava, Spring, Fluentlenium*

**Frontend Environment :** *JavaScript, ReactJS*

**Gestion de projet :** *Agile methods / Scrum*

**Company :** *SACEM is the company in charge of collecting and redistributing music copyrights in France.*

2013 **Scala Software Engineer**, *FONTYOU*, Paris.

7 mois Development of a web application dealing with font co-creation

- Development of the APIs with Scala, Play2!, MongoDB
- Development of the frontend with JavaScript, BackboneJS, CSS3
- System administration of the software factory and the production environment
- Development of a proof of concept for vectorial drawing inside a browser

**Backend Environment :** *Scala, Play2!, MongoDB, Zabbix*

**Frontend Environment :** *JavaScript, BackboneJS, RequireJS, HTML5/CSS3, LessCSS*

**Gestion de projet :** *Agile / Scrum*

**Company :** *Fontyou is a startup which at the time was working on a social network of font co-creation.*

**References on demand.**

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## Personal projects

2017 **HDFS Compactor**, *In progress....*

Tool aiming at gathering small files into bigger ones in order to minimize the number of HDFS blocks and to optimize the reading of data. Supported formats : Parquet, Avro, CSV compressed in GZip.

2017 **Docker image for TaigaIO**, *In progress....*

Creation of a Docker image for the *taiga.io* software. TaigaIO is a simplified tool for task management oriented to Agile methods.

2015 **Personal Server**.

Installation of a development server with Ansible  
*Ansible, Nginx, OwnCloud, GitLab, Linux Debian*

2015 **Personal Computer**.

Automation of the install and configuration of my own personal computers with Ansible

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## Interests

IT Free and open source softwares, fonctionnal programming.

Hobbies Salsa and other dances, Tech watch, Photography.

Travels 17 years in Libreville (Gabon), Road trips in Europe (11 countries), 4 months in India.