

# Michael Morello

Developer and distributed system engineer, France

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## Currently

Building a private PaaS with Docker, Kubernetes and Openshift

## Specialized in

Building and maintaining distributed systems :

Openshift and Kubernetes clusters

Hadoop and big data related softwares (Kafka, Spark...)

Automating things with Ansible (and a little bit of Bash)

Always keep a close eye on security issues

15+ years of Java

Golang newbie (but as someone who is working on distributed systems and did a lot of programming I'm eager to gain new experiences with this language)

## Research interests

Distributed systems (CAP and FLP theorems, Google papers ...)

Computing languages (Java, C, Go)

IT Security

Machine learning

## Education

2003

**Master in Distributed applications and artificial intelligence**

## Work History

2015

CNAMTS is the French National Health Insurance, it guarantees healthcare access for nearly 55 million people in France

**Product Owner and Architect of a Private PaaS cloud platform @ CNAMTS**

Lead engineer for cluster management using Openshift, Kubernetes, Docker and Ceph as the storage platform on baremetal and virtual infrastructures.

Automate most of the cluster maintenance tasks with Ansible

Write some Go programs to help to maintain the platform (e.g. ZAC )

Leverage agile and CI/CD methodologies in order to continuously deploy PHP, Java and NodeJS apps in production

Manage a "Kibana and Elasticsearch As A Service" platform

2014

**Hadoop and BigData Engineer @ CNAMTS**

Design and deploy Hadoop clusters :

Hardware and operating system choice (diskless CentOS customized distribution)

Collection and aggregation system deployment (Flume)

Setup processing system (Hive + TEZ , Spark, YARN, Solr Cloud on HDFS)

Kerberos with FreeIPA

Ansible for third part configuration

Metrics collection with HBase and OpenTSDB + Grafana to visualize data with nice dashboards

2009

Develop a Spark program for web server log classification with kmean algorithm

**Java and JEE Software Engineer @ CNAMTS**

Build a highly available configuration directory with Apache Zookeeper and Apache Curator

Create simple but highly reliable file transfer tool with Netty, Google Protocol Buffers and Google

Guice. This tool is today deployed on hundreds of machines in order to transfer files of any size.

Lead Java engineer on a JEE (Oracle Weblogic) project