

Sebastien SERRE

SENIOR SOFTWARE DEVELOPER C/C++/Java/Erlang
SYSTEM AND NETWORK ADMINISTRATOR

+ CONTACT

Address

Contacts 

 sebastien.serre@sysmo.io

GitHub Profile <https://github.com/ssbx>

Nationality French

Birth date 29 January 1979 (36 years old)

+ EXPERIENCES

- 2012 - now (4 years) **SOFTWARE DEVELOPER AND ENTREPRENEUR** Conceptor of Sysmo-NMS(github.com/sysmo-nms), a young and innovative open source monitoring and network management solution (www.sysmo.io), supported by the [Regional Council of Aquitaine](#).
Very dense research and development period covering:
- Building a commercial product written in **Erlang, Java** and **C++** from bare begin to installable releases for Linux and Windows,
 - Definition and conception of [Supercast](#) a framework helping the creation of applications offering soft real time behaviour to the user interface, written in **Erlang** with client libraries for **C++/QT, Python** and **Javascript**,
 - Definition and conception of the [Nchecks monitoring library](#), written in **Java**, powerfull replacement for "nagios-plugins like" stuffs. Extensible in **Ruby**,
 - Definition of the [Sysmo AppHooks](#) protocol an API wich is a "addon style" extention system,
 - Conception of the [Sysmo-Core server](#), an **Erlang/OTP application** accessing Java utilities throught Jinterface,
 - Definition and implementation of a simple but efficient distributed workers concept using **Java/Jinterface** worker and an **Erlang** central server (more on [the documentation](#)),
 - Experiences in various data store mechanisms (Mnesia, Berkley DB Java Edition, Derby), even if not mentionned, I have a good understanding of the NoSQL things,
 - Conception of the [Sysmo-Operator client UI](#) in **C++/Qt**,
 - Experience in rapidly evaluating, learning and using the right tool for the job (self-educated, **OTP, C++** and **Go** were learned during this period),
- 2009 - 2011 (2 years) **PRINCIPAL NETWORK ADMINISTRATOR** Network administrator at the [University of Bordeaux Victor Segalen](#).
Highly technical and central position covering various roles:
- Solving OSI L2 (Ethernet) and L3 (mostly IPv4) breakdowns,
 - Preparing expansion and implementing fault tolerant network (Wifi, remote sites, VLANs, VRRP, routing protocols),
 - Responsible of network security policies,
 - Monitoring and managing 200+ network elements including switchs, wireless access points and routers,
 - Relations with suppliers, integrators and cable companies.

2008 - 2009 (6 months) Six month mission following my two weeks end of study stage at the [Institut de Biologie et de Génétique Cellulaires](#) of Bordeaux 2.

SYSTEM AND NETWORK
ADMINISTRATOR

This period was used to modernize and securize the institue network:

- Defining clear network areas, routing and filtering policies using OpenBSD Packet Filter and Cisco ACL's,
- Implementing routing protocols (OSPF) and failover protocols (CARP/VRRP) to eliminate single point of failures when possible,
- Implementing 802.1x (Radius) with newly installed WiFi access with LDAP authentication,

+ DEGREES & CERTIFICATES

2006 - 2008 Two years technical degree in information technology.

INFORMATION
TECHNOLOGY DEGREE

Technicien Supérieur Gestionnaire de Ressources Informatiques ([TSGRI](#))
AFPA Pessac
94 Avenue de Canéjan,
33600 PESSAC (FRANCE)

2012 Passed Cisco CCNA certificate (english version) in 2012. Not renewed.

CISCO CERTIFICATE

+ LANGAGES

Mother tongue French

Foreign language English with a good written aptitude, but probably some spoken practice needed.

+ IT PROFESSIONAL SKILLS

Operating systems UNIX, Linux, Windows

Network devices & tools Cisco, Allied, HP, Alcatel, Nmap, Tcpdump, Wireshark

Programming languages Erlang, Java, C++, C, Go, Scripting languages, Bash

Libraries/Frameworks OTP, Qt, Java (Snmp4j, JRuby, Log4j...)

Built/Test tools Rebar, Gradle, Cmake

Release handling Open Build Service (RPM & DEB), WixToolset (MSI)

Web HTML5, Websocket, Javascript

+ PROFESSIONAL HIGHLIGHTS

I integrate easily new developers team.

I like to discover and learn new ways of development and techniques.

I am independent and like to take initiatives.

I do not hesitate to seek advice from collaborators in areas that i do not master.

I like to share my experience.

+ OTHER SKILLS AND HOBBIES

Running
Swimming
Sailing dinghy's
Fun with the C language (<http://funlibs.github.io>)