

# Raphaël Pinson

Cloud Native Technical Evangelist

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Driving License



*Freely you have received, freely give*

MATTHEW 10:8

## Skills

### Expert Skills

Configuration Management Puppet<sup>†</sup>, Terraform<sup>†</sup>, Augeas<sup>\*</sup>

Containers Docker, Kubernetes

### Development

Languages C, Perl, Python, Shell/Bash, Ruby, Go, GNU Make, Ada, Lua

Web HTML/XHTML, CSS, JavaScript, Ajax, JQuery, Bootstrap, PHP, Angular JS

Frameworks Django, Google AppEngine, Google Wave, Netvibes

Databases MySQL, PostgreSQL, NoSQL (GQL), SPARQL

Formats XML/XPath, SGML, YAML/JSON, RDF/RSS/FOAF

Methods Object Oriented Programming, MVC, Unit Tests, UML

Source Management RCS/CVS, SVN, Bazaar, Git, Mercurial

Tools Autotools, Gforge, Launchpad, GitHub, GitLab

### Systems and Networks Administration

Web Apache, Lighttpd, Nginx, Varnish, Bind, Squid, Dansguardian, VsFTPd, Traefik

Monitoring Nagios, Munin, Cacti, Graphite, Logstash, Prometheus, Grafana

Mail Postfix, Exim, SSMTP

Backup Amanda, Duplicity, Restic

Installation / Deployment FAI, Kickstart, Reprepro, Cfengine, Puppet<sup>†</sup>, MCollective<sup>†</sup>, Augeas<sup>\*</sup>

Networks DHCPd, VLANs, OpenVPN, Keepalived

Operating Systems GNU/Linux (Debian<sup>†</sup>, Ubuntu<sup>\*</sup>, RedHat), MacOS X, Windows

Databases MySQL, PostgreSQL, SQLite, BerkeleyDB, CouchDB

Virtualization Xen, VMWare, Virtualbox, Libvirt

Security OpenSSL, GnuPG, OpenSSH, Let's Encrypt

Cloud Openstack, Amazon Web Services, Microsoft Azure

Containers Docker, Kubernetes, OpenShift

### Office and tools

Office OpenOffice/LibreOffice, Microsoft Office, Gimp, Inkscape

Project Management TaskJuggler, GanttProject

Edition T<sub>E</sub>X, L<sup>A</sup>T<sub>E</sub>X, X<sub>Y</sub>L<sub>A</sub>T<sub>E</sub>X, LuaT<sub>E</sub>X

Wikis MediaWiki, MoinMoin

\*Developer

†Contributor

## Experience

### IT Experience

2012

**Infrastructure Developer & Trainer**, *Camptocamp*, Chambéry then Lausanne.

Infrastructure Developer, Consultant & Trainer for internal and client infrastructures.

- Systems Engineer:
  - Operated a fleet of 500+ Puppet-operated servers (including servers for EPFL and Swisstopo);
  - Architected and deployed a secured MCollective cluster using RabbitMQ and SSL;
  - Planned and executed migrations between major Puppet versions (0.25 to 2.7 and 2.7 to 3.5);
  - Wrote and contributed to 100+ Puppet modules (mostly public), including plugins (facts, functions, types & providers, indirectors), with unit tests;
  - Managed servers hosted on Amazon Web Services (with Cloud Formation) and OpenStack;
  - Packaged software for RedHat and Debian platforms. Operated and improved the package build systems and package repositories.
- Training Leader:
  - Initiated strategic partnerships with software editors (Puppet Labs, Red Hat);
  - Taught official Puppet Labs curriculum (Puppet Fundamentals, Advanced Puppet, Extending Puppet with Ruby);
  - Wrote and taught Docker and Kubernetes curriculum;
  - Taught teams from major universities/labs (CERN, EPFL), private banks (in France and Switzerland) and governmental IT teams.
- Consultant:
  - Performed Puppet/Devops consulting for private banks and governmental IT teams.

2006

2012

**Systems Engineer**, *ORNESS then Alten*, Sophia Antipolis.

Consultant at France Télécom

- Administration of Cfengine, FAI and the software package repository;
- Renewal and industrialization of the software deployment system for Debian/Ubuntu;
- Management of the Gforge (collaborative development web interface) platform;
- Development of QA tools for systems and configurations policy compliance;
- Integration of the continuous integration platform (Hudson) with the Debian/Ubuntu software deployment system;
- Monitoring of the fleet of servers;
- Writing of technical documentation.

2008

**Developer**, *Augeas*, Internet.

Development, bugfix and documentation

- Writing of Augeas lenses;
- Coding in C;
- Improvement of autotools configuration;
- NaturalDocs Integration (documentation generator);
- International Conference Speaker (Belgium (FOSDEM)).

2005

**Developer/Maintainer**, *Ubuntu*, Internet.

Development, bugfix and documentation

- Creation, maintenance and review of software packages;
- Writing of technical documentation for developers;
- Maintenance of the QA system for software package;
- Bug management;
- International Conference Speaker (Hungary, Germany (LinuxTag)).

2005

**Open-Source Contributor**, *Various projects*, Internet.

- CPAN Author: maintainer of several Perl modules on CPAN;
- CTAN Author: maintainer of several  $\text{\LaTeX}$  packages on CTAN.

### Other Experience

2009

**Translator and Editor**, *La Colombe Calvary*, Nice.

- Translation of English theology books into French;
- Edition of books using  $\text{\LaTeX}$ ,  $\text{\XeTeX}$  and  $\text{\LuaTeX}$ ;
- Publishing of books using on-demand publishing services (CreateSpace and Lulu).

## Education

- 2013  
Puppet Trainer, *PuppetLabs*, Amsterdam.  
Official Training Partner for PuppetLabs' courses (Puppet Fundamentals, Puppet Advanced, Extending Puppet with Ruby)
- 2009  
ITIL<sup>®</sup> v3 Foundation, *EXIN*, Sophia Antipolis.  
Organization and efficiency of the Information System
- 2005  
Student in Business Creation and Management, *Créafort*, Poitiers.  
Accounting, Management, Marketing, Law
- 2005  
Student in Pedagogy ('Gestion Mentale'), *IFGM*, Bordeaux.  
Pedagogy, Didacticism, Cognitive Psychology
- 2003–2005  
2005  
Student in Mechanical Engineering,  
*École Nationale Supérieure de Mécanique et d'Aérotechnique (ENSMA)*, Poitiers.  
Solid & Fluid Mechanics, Mathematics, Combustion & Propulsion, Materials Science, Automation, Signal Processing, Computer Sciences, Management
- 2004  
Licence, equivalent of a British Bsc, in Mechanics, *Université de Poitiers*, Poitiers.  
Solid & Fluid Mechanics, Mathematics, Combustion & Propulsion, Materials Science, Automation, Signal Processing, Computer Sciences, Management
- 2002–2003  
2003  
Student in Chemistry, *Université de Paris XI*, Orsay.  
Chemistry, Physics, Mathematics

## Certifications

- 2021  
Certified Kubernetes Security Specialist (CKS), *CNCF*, LF-xpar0qezpj.  
Kubernetes
- 2020  
Certified Kubernetes Application Developer (CKAD), *CNCF*, LF-gikljn6k0e.  
Kubernetes
- 2019  
Red Hat Certified Specialist in OpenShift Administration, *Red Hat*, 190-035-931.  
OpenShift
- 2018  
Certified Kubernetes Administrator (CKA), *CNCF*, LF-vqym1q6gyo.  
Kubernetes
- 2013  
Puppet Certified Developer, *PuppetLabs*, PCD0000011.  
Puppet IT automation software
- 2013  
Puppet Certified Professional, *PuppetLabs*, PCP0000116.  
Puppet IT automation software
- 2009  
ITIL<sup>®</sup> v3 Foundation Examination, *EXIN*055512.  
Organization and efficiency of the Information System

## Foreign Languages

French	Native	Mother Tongue
English	Fluent	Daily practice, conferences given in English
Spanish	Good Level	Occasional practice
German	Good Level	Studied 9 years in school

## Personal interests

Music	Clarinet, guitar, piano, organ, saxophone
Sports	Hiking, sailing, golf, climbing
Others	Genealogy, reading