

# Raphaël Pinson

Open-Source Technologist

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Driving License



*Freely you have received, freely give*

MATTHEW 10:8

## Skills

### Expert Skills

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

Debian OSes Debian<sup>†</sup>, Ubuntu<sup>\*</sup>

### Development

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

Frameworks Django, Google AppEngine, Google Wave, Netvibes

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

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

Web HTML/XHTML, CSS, JavaScript, Ajax, JQuery, PHP, Semantic Web

Databases MySQL, PostgreSQL, NoSQL (GQL), SPARQL

Methods Object Oriented Programming, MVC, Unit Tests, UML

Tools Autotools, Cmake, Trac, Gforge, Launchpad, GitHub

### Systems and Networks Administration

Web Apache, Lighttpd, Nginx, Varnish, Bind, Squid, Dansguardian, VsFTPD

Mail Postfix, Exim, SSMTP

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

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

Virtualization Xen, VMWare, OpenVZ, LXC, Openstack, Amazon Web Services

Monitoring BB4/Hobbit, Nagios, Munin, Cacti, Graphite, Logstash

Backup Amanda, BackupManager

Networks DHCPd, VLANs, OpenVPN, Keepalived

Databases MySQL, PostgreSQL, SQLite, BerkeleyDB, CouchDB

Security SSL, PGP/GnuPG, OpenSSH

### Office and tools

Office OpenOffice/LibreOffice, Microsoft Office, Gimp, Inkscape

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

Project Management TaskJuggler, GanttProject

Wikis MediaWiki, MoinMoin

<sup>\*</sup>Developer

<sup>†</sup>Contributor

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## Experience

### IT Experience

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#### 2012 **Infrastructure Developer & Trainer**, *Camptocamp*, Chambéry.

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 Augeas curriculum (Augeas Fundamentals);
  - 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.

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#### 2006 **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.

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#### 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)).

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#### 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)).

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#### 2005 **Open-Source Contributor**, *Various projects*, Internet.

- CPAN Author: maintainer of several Perl modules on CPAN;
- CTAN Author: maintainer of several  $\TeX$  packages on CTAN.

### Other Experience

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#### 2009 **Translator and Editor**, *La Colombe Calvary*, Nice.

- Translation of English theology books into French;
- Edition of books using  $\TeX$ ,  $\LaTeX$  and  $\LuaTeX$ ;
- 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 **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 **Student in Chemistry**, *Université de Paris XI*, Orsay.  
Chemistry, Physics, Mathematics
- 2000–2002 **Student in Medicine (PCEM1)**, *Université de Paris XI*, Orsay.  
Biology, Chemistry, Biochemistry, Physics, Anatomy, Histology, Physiology, Law
- 2000 **Baccalauréat, equivalent of British A Level**, *Lycée Blaise Pascal*, Orsay, with distinction 'mention bien'.

## Certifications

- 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	<b>Native</b>	<i>Mother Tongue</i>
English	<b>Fluent</b>	<i>Daily practice, conferences given in English</i>
Spanish	<b>Good Level</b>	<i>Occasional practice</i>
German	<b>Good Level</b>	<i>Studied 9 years in school</i>

## Personal interests

Music	Clarinet, piano, organ, saxophone
Sports	Hiking, sailing, golf, climbing
Contributions	Wikipedia, OpenStreetMap
Memberships	President of the cultural association 'la Colombe de Savoie' Ubuntu member
Others	Travels, reading