

# Raphaël Pinson

Cloud Native Tech Evangelist

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*Freely you have received, freely give*

MATTHEW 10:8

## Experience

2012

Cloud Native Tech Evangelist, *Camptocamp*, Chambéry then Lausanne.

### – Puppet & Cloud

When I joined Camptocamp, the instructure team's activity focused on managing 500+ servers on behalf of clients, using mainly **Puppet**, **OpenVZ**, and **Amazon Web Services**.

### – Partnerships & Training

In order to leverage our team's renowned expertise in Puppet, I set up a **strategic partnership** with Puppet Labs and started teaching the official Puppet curriculum. This required me to be certified by both the **Puppet Professional** and **Puppet Developer** certifications. I also wrote our own curriculum based on **Foreman** for clients using Open Source Puppet, as well as an **Augeas** curriculum.

Since then, I have been a **trainer** to many engineers at major banks, universities (EPFL, Unibe), research facilities (CERN, CNRS), and many more.

### – Open Source Work

As our team managed tens of public open-sourced Puppet modules, I strived to improve quality by implementing **unit and acceptance tests**, publishing them on the Puppet forge, and getting them approved by Puppet Labs as standard implementations. I also managed the **Augeasproviders** project and maintained the Puppet modules associated with it. My Puppet expertise led to many **consulting** missions, ranging from architecture to migration, as well as specific **Ruby** development, and earned me a recognition as **Puppet Champion of the year 2020**, with a title of **Extraordinary Puppeteer**.

### – Terraform

With our use of public clouds broadening, we switched our provisioning from **Cloud Formation** to **Terraform** and contributed multiple providers and modules to the community. I authored **Terraboard**, a UI to visualize Terraform states, written in **Go** and **AngularJS**.

### – Containers & Orchestration

Around 2014, we moved our Puppet acceptance tests from **Vagrant** to **Docker**. We realized Docker's potential, and moved our Puppet stack on top of it. Starting with **Docker-Compose**, we switched to **Rancher** in 2015 to scale the infrastructure horizontally, and became **Rancher Partner**. We wrote containers tools such as **Bivac**, to automate volumes backup. I migrated the Puppet stack to **OpenShift** around 2018.

**Kubernetes** expertise is now our main activity. I have co-authored and taught a 5-day curriculum covering Docker and Kubernetes. In the meanwhile, I have contributed to getting Camptocamp set up as one of the first **Kubernetes Certified Service Provider** (KCSP) in Switzerland and the first **Kubernetes Training Partner** (KTP) in Europe.

I completed the **OpenShift Administration**, **CKAD**, **CKA**, and **CKS** certification programs.

In the last year, I have co-authored the **DevOps Stack**, a solution integrating **Terraform**, **ArgoCD**, **OIDC**, **Traefik**, **Cert-Manager**, **Prometheus**, **Grafana** and more into a framework to easily provision Kubernetes clusters in a **GitOps** fashion —using **GitLab** or **GitHub Actions** pipelines— on **Amazon EKS**, **Azure AKS**, **Exoscale SKS**, **Deutsche Telekom CCE**, **Rancher K3S**, **Kind**, and more.

### – Sales & Marketing

As an expert, I have often supported our **sales force** and contributed to multiple **tenders**. My attachment to Camptocamp's image and values has also encouraged me to improve **marketing** (through market studies, newsletters, blog posts, videos, white papers, designing illustrations, totems & goodies). I have represented Camptocamp at many **conferences and meetups** (both physical and online) on various subjects (Puppet and its ecosystem, Cloud, DevOps, etc.).

2006  
2012

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

Consultant at France Télécom

- *Cfengine*  
I was originally hired to migrate about 3000 machines from **Cfengine** 1 to Cfengine 2. This was an opportunity for me to learn about **Configuration Management** principles and to discover **Puppet** along the way.
- *Package build farm & repository*  
Migration to Cfengine 2 was an opportunity to standardize software packages used. I set up a new automated Debian package repository using **reprepro** and a **Debian build** farm to compile the packages for multiple distributions and architectures. Both i386 and amd64 builders ran on a single machine, using **LXC** containers as light virtualization to isolate contexts.  
I encouraged developers to package their applications and helped them set up **CI/CD** pipelines using **Hudson** (now **Jenkins**) to automatically release their packages to the repository, using **GnuPG** keys as the authentication layer.  
In order to encourage good practices, I taught multiple sessions of a **Debian packaging curriculum to colleagues**.
- *Gforge*  
I administered a Gforge platform for hundreds of developers. As part of this task, I set up a replicated fallback server and wrote a CVS replication software using **Perl** and **inotify**.
- *Policy Conformity*  
In order to improve conformity to standards as we adopted **ITIL** processes, I designed a **Treetester**, a Perl software working as a sieve of tests to identify priority actions to take on machines and platforms and report to platform administrators in a Web UI.

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  $\LaTeX$  packages on CTAN.

## **Other Experience**

2009

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

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

## Education

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

## Certifications

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