# Raphaël Pinson

*Cloud Native Tech Evangelist*

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*Driving License*

*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 on the Puppet forge, and getting approvals 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**, **Træfik**, **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.).

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

2006
2012

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** and **Augeas** 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 buildd** 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 several internal teams.
- *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**, **PostgreSQL**, and **inotify**.
- *Policy Conformity*
  In order to improve **conformity** to standards as we adopted **ITIL** processes, I designed **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, XƎTEX 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® 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, Combusion & 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, Combusion & 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-vqymlq6gyo.
Kubernetes

**2013** — **Puppet Certified Developer**, *PuppetLabs*, PCD0000011.
Puppet IT automation software

**2013** — **Puppet Certified Professional**, *PuppetLabs*, PCP0000116.
Puppet IT automation software

**2009** — **ITIL® v3 Foundation Examination**, *EXIN*055512.
Organization and efficiency of the Information System

## Foreign Languages

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|---|---|---|
| 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

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