

Raphaël Pinson

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Freely you have received, freely give

MATTHEW 10:8

Experience

2022 Solutions Architect, then Technical Marketing Engineer, Isovalent, Remote.

- *Consulting*
I **supported customers, prospects, and partners** in architecture decisions for Cilium, Tetragon and Isovalent Enterprise implementation.
This activity included onboarding and counseling new customers, via both online and on-site sessions, as well as hosting regular public AMA sessions for prospects.
- *Instruqt Labs*
Using the Instruqt platform, I **built and maintained both public and private technical hands-on labs** to demonstrate and teach Cilium, Tetragon, and eBPF functionalities to prospects, customers, and partners.
These labs have been heavily used by Sales Engineers, customers, and partners. I built and supported **automation** to ease building and updating labs for the TME team.
In order to improve the learning experience, I built **gamified interfaces** for labs, including e.g. exams and badges, an interactive web map to access the labs and view live lab activity, and a holiday calendar for the end-of-year season.
These initiatives **multiplied** the attractiveness of the platform and the user's satisfaction with the learning experience.
- *Technical Content*
I wrote **blog posts** and recorded **videos** about Cilium and Tetragon. I also **conducted video interviews** with users and customers.
- *Learning Experience*
As part of a project to build a learning platform, I conducted **prospective interviews** with various stakeholders, and built a **minimal viable product** for a learning platform portal.
- *Workshops*
I led workshops —both on-site and online— with prospects and customers, mixing theoretical content and hands-on labs.
- *Tooling Improvements*
In order to improve internal tooling, I built a system to visualize Kubernetes cluster debug information exported by Cilium using a mock cluster and K9s.
- *Public Speaking*
I spoke at **multiple events** (DevOpsDays, Container Days, KubeCon, etc.) about eBPF, Cilium, and Tetragon.

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**, **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** 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 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 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 , $X\LaTeX$ and $\Lua\TeX$;
- Publishing of books using on-demand publishing services (CreateSpace and Lulu).

Education

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

Certifications

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

Foreign Languages

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

Personal interests

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