Pierre**Guinoiseau**
Linux/Unix Systems engineer / DevOps engineer

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languages
French: mother tongue
English: professional
working proficiency
(IELTS: 7.0)
Spanish: notions
Japanese: notions

programming
♥ Ruby
Python, Perl, PHP, C, Lua

summary

28 years old, 8+ years experience as a Linux/Unix systems engineer, DevOps engineer and Ruby/Python/PHP developer.

experience

2015–now	**Catalyst IT**	Wellington, New Zealand

DevOps engineer / Python developer
DevOps engineering in the eLearning team and in Catalyst Cloud projects

2010–2015	**HR Team / Subcontractor for M6 Web**	Lyon, France

Linux/Unix systems engineer / DevOps engineer
M6 Web (`http://tech.m6web.fr/`), the M6 Group's subsidiary responsible for developing new technologies, is structured around several operational platforms: websites of TV channels (M6, W9, Teva, Paris Premiere…), offering Catch-up TV (6play) and VOD (Pass M6), thematic web portals (clubic.com, jeuxvideo.fr, turbo.fr, deco.fr…), comparison shopping websites (achetezfacile.com), mobile phones with M6's Mobile by Orange offer, and finally games and channel interactivity.

Along with my 2 colleagues and a remote ops team, I'm in charge of the hosting infrastructure, spread across 2 datacenters and AWS, and the local development platform, for a total of 400+ physical and virtual heterogenous hosts. We are hosting 150+ websites and webservices, developed almost exclusively with PHP (Symfony 2) and Node.js, and running with Apache, Nginx, Varnish, MySQL, Redis, ElasticSearch, etc. We use mainly Puppet & MCollective for our infrastructure provisioning, and Chef for OpsWorks on AWS.

As we started to adopt agile methods, I focused mainly on providing developers the tools they need for it and allowing them to be as independent as possible, most notably:

- setting up a development platform able to run 150+ development websites for 70+ developers, with multiple PHP versions and various other technologies;
- migrating from SVN to Git (GitLab then GitHub Enterprise) and the tools around it;
- providing a CI environment with Jenkins, recently with Docker slaves for more flexibility;
- improving application monitoring with StatsD, Graphite and Grafana;
- building a centralized deployment solution featuring a multi-projects and multi-stages configuration and a REST API, and also able to deploy any number of staging environments for any project. It is built with a heavily modified Capistrano 2 and a lot of custom recipes, Grape and Sidekiq.

| 2008–2010 | **Pilot Systems** | Lyon & Paris, France (telecommuting) |

Python/Zope/Plone developer and Linux/Unix system administrator
Pilot Systems (`http://www.pilotsystems.net/`) is an Open Source Integrator, specializing in Python solutions, like Zope, Plone, Django, etc.

As a developer:

- Consulting, software development and maintenance of intranet and extranet solutions for several customers, based on Zope (2.x) and Plone (2.x and 3.x);

- Software maintenance on the legacy website of liberation.fr (PHP & MySQL) and involvement in the migration to the new website, built with Django & PostgreSQL, mainly for synchronization and migration scripts.

As a system administrator:

- Hardware and software administration of a Debian/Xen virtual hosting infrastructure;

- Migration of various services from FreeBSD 4.x/5.x hosts to Debian VMs;

- Administration of DNS servers hosting several dozens of domains;

- Administration of network routers and firewalls (IPTables);

- Administration of OpenLDAP, MySQL and PostgreSQL servers;

- Administration of VPN servers (OpenVPN);

- Migration and administration on the internal multi-domains mail platform: Postfix, Cyrus IMAPD, Spamassassin, OpenLDAP authentication;

- Consulting and administration on the legacy hosting platform of liberation.fr: LAMP, HAProxy;

- Setup and administration of the new hosting platform for liberation.fr: Apache, Django, PostgreSQL.

| 2007–2008 | **Eliot** | Voiron, France |

Web developer and embedded system developer – Part-time internship
Eliot (`http://www.eliot-sa.com/`) designs and produces modular on-board telematic Solutions for transport (goods and passenger), logistics and industrial companies.

Had 2 different missions in parallel:

- Installed, configured and tested a proprietary mapping/routing/geocoding server (deCarta DDS), along with a few LAMP servers, and then developed a PHP API around it (it has its own proprietary protocol), to query it for map tiles, itinerary calculation and geocoding. This API would then be used in the backoffice software;

- Did early testing on a next-generation on-board terminal, running on an ARM platform. Built an embedded Linux OS using OpenEmbedded, trying to keep it as light as possible while providing all the drivers and tools that would be needed to access the hardware (GPS, GPIO, CAN bus, VGA, sound, radio…) and run a our soon-to-be-developed software on it. Had to work closely with the hardware designer, testing and debugging device drivers and providing feedback on a each new hardware version.

2004–Now	**Personal experience**	Lyon, France – Wellington, New Zealand

Experimentations with various OS: Gentoo, Debian, FreeBSD, OpenBSD, HaikuOS…and various technologies
Hosting my own services (web, mail, XMPP, DNS…) for my family, my friends and myself
English to french documentation translation for Gentoo
Helping FreeBSD and Gentoo french communities on forums and IRC, moderator on Gentoo forums from 2007 to 2011

education

2007–2008	**Bachelor's Degree** in Computer Science	Université Pierre Mendès-France (Grenoble II)

Licence professionnelle "Systèmes Informatiques et Logiciels"

2005–2007	**Associate's Degree** in Computer Science	Université Pierre Mendès-France (Grenoble II)

DUT Informatique (Higher National Diploma in Technology / Computer Science)

skills

- **Programming languages:** Ruby, Python, Perl, PHP, C, Lua
- **Operating systems:** Linux (Gentoo, Debian, Ubuntu, RedHat), ♥ FreeBSD, OpenBSD
- **AWS:** EC2, S3, CloudFormation, OpsWorks
- **Virtualization:** VMWare ESX(i), Xen
- **Containerization:** Docker
- **Web servers:** Apache, Nginx
- **Web caching:** Varnish, Nginx
- **HA:** KeepAlived, HAProxy
- **SQL:** MySQL, PostgreSQL
- **NoSQL:** Memcached, Redis, ElasticSearch
- **LDAP:** OpenLDAP
- **DNS:** BIND, NSD, Unbound
- **Mail:** Postfix, Dovecot, Cyrus, Amavisd/Spamassassin
- **Firewalling:** IPTables, PF, FortiGate
- **VPN:** OpenVPN, FortiVPN
- **Configuration management:** Puppet + MCollective, Chef
- **CI:** Jenkins
- **SCM:** Git, Mercurial, SVN
- **SCM platforms:** GitLab, GitHub Enterprise
- **Monitoring:** StatsD + Graphite + Grafana, Cacti, Nagios/Icinga, ipMonitor
- **Backup:** BackupPC, Veeam
- **Storage:** NetApp, QNAP
- **Methodology:** Agile, Kanban
- **Nerf warfare:** Rampage, Centurion

interests

Playing guitar, drumming, photography (events & urban), longboarding, hiking

referees

Available on request