Thibaut Lapierre

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As an OpenStack Cloud Solutions Engineer at HPE I design, integrate and run

cloud computing platforms for Governments, Banks and Telcos.

The other half of my time, I focus on software development, mainly related to virtualization, containers and networking.

Previously I've been teaching Linux and low level programming in a university and developed shaddock (a container based orchestration and deployment tool).

Professional experience

OpenStack Cloud Solutions Engineer

Hewlett Packard Enterprise

Technology Consulting - Professional Services

November 2014 – Present | Galway, Ireland

We work with worldwide customers to implement OpenStack in production, doing:

- Architecture and integration of private Cloud Computing platforms for customers.
- Software development to address specific requirements and integrations.
- Workshops and trainings around architecture design of cloud platforms and integration with already implemented solutions.
- Development of the Distributed Communications Network (DCN) / Alcatel Nuage integration for Helion OpenStack.

Software System Engineer

Digimind

May 2013 – November 2014 (1 year 7 months) | Grenoble, France

My main goal was to scale-out the infrastructure with OpenSource technologies like OpenStack, Ceph, Docker, HAproxy and others.

- Implementation of an OpenStack private Cloud to manage the development, pre-production and QA environments.
- Integration and (close to no) maintenance of a distributed storage system with Ceph.
- Python development with the Amazon Boto API in order to manage and autoscale a ~480 Nodes frontend cluster on specific use cases.
- Integration of an Nginx Web Application Firewall (Naxsis) and return metrics in Kibana.

University Teacher

SUPINFO

September 2012 – September 2013 | France

Part time teacher of Unix systems functioning and Data Center management for the 1st to 3rd year students.

Computer Architecture for the 1st year students (ASM8086 Low level programming, combinational logic, sequential logic and Binary Mathematics)

And VoIP (Asterisk) to the 3rd year students.

Professional experience	**Software System Engineer**	
	TrustTelecom	trusttelecom
	September 2012 – March 2013 (7 months) | Marseille, France	

Development and exploitation of a Game Server rental platform. (Python / PHP)

System administration of a mutualized hosting platform. (mainly Bash)

Timekeeping operator

Fédération de Cyclisme du Québec

January 2012 – July 2012 (7 months) | Montreal, QC, Canada

As a timekeeping operator for the Cycling Federation of Quebec I've design a timekeeping system using Python and the MyLaps solution to track the times during the races and analyze them in order to provide detailed dashboards.

I also had to track the times during the races all around the Quebec.

Personal projects

Shaddock

Shaddock is a project we wrote to provides a platform deployed in containers following a predefined yaml template (like an OpenStack infrastructure)

https://github.com/epheo/shaddock

Montreal InterUniversity Pencontest

Head of Unix pole and teacher

September 2011 – June 2012

PenContest is a Capture The Flag contest involving Hacklabs and Montreal Universities.

I had to manage a team of 4 systems engineers in the implementation and setting of infrastructures and events.

My second task was preparing and dispensing Linux courses about the contest (4 hours per week).

Technologies

Computing / Virtualisation	libvirt, OpenStack, Docker, LXC, AmazonWS, Qemu/KVM
Networking / NFV	Alcatel Nuage, OpenFlow, Neutron, OpenVSwitch,
Storage / Data	Ceph, Swift, VSA, 3PAR, ElasticSearch, Kibana, ZeroMQ, Redis, Solr, SQL, Python-TextBlob, Panda
Orchestration	Ansible, Python Fabric, Jenkins
Development	Python, JavaScript (node), PHP, C++, x86 Assembly, Git

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Trainings and diploma

ESI SUPINFO	**2009 - 2014**

Master in Computer Engineering (Lyon, FR | Grenoble, FR)

Bachelor in Computer Engineering (Lyon, FR | Montreal, CA | Marseille, FR)

FOSS Certificate in OpenStack Software

EXIN, License 5410758.20420649

LUCENE / SOLR Professional training seminar (Digimind)	September 2014
SCT CERTIFICATION (Supinfo Certified Trainer)	April 2011
ITIL Training seminar by Dr. Mohamed Benkhalifa (Montreal, Canada)	May 2012
STI Electrical Engineering high school diploma at Lycée La Martinière Montplaisir (Lyon)	2009

Previous experiences and internships

[internship] System Administrator at **LPC**   (August – October 2011| Lyon, FR)

Virtualization and monitoring of Linux, BSD and Windows servers. Developing bash scripts and POC with Xen and ESXi.

[internship] Web Developer at **Arobases**   (July – October 2010 | Lyon, FR)

PHP development and commercialization for their e-commerce solution: vendre-en-ligne.com.

Sales Operator at **Aviso**   (September – November 2012 | Lyon, FR)

Self-Employment   (Décember 2009 – January 2012 | Lyon, FR)

Web development, network and system administration for SME.

[internship] System Administrator at **Lokris**   (June – November 2008 | Saint-Bonnet de Mure, FR)

Exploitation of FreeBSD and Linux Suse servers (Apache, Dovecot, Sendmail, OpenVPN).

Network wiring.

Personal interests

Scalability, Scales, Astronomy

Skiing (13 years competition at the French and European Federations)