

Valentin Lab

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Software Engineer

■ Summary and Goals

I'm a **Senior developer** with more than **10 year of experience** in small to medium structures, gathering operative skills and solution finding skills by creating or using open-source projects.

I value deep understanding, creative solution, and standards to achieve both quality of service and team efficiency.

My goal is to work on challenging IT problems as an engineer, preferably in an Open Software environment **encouraging strong quality ambitions**.

I live in France, but would greet happily any proposition to work in an English speaking country. I have also worked from home more than 6 years with success, travelling regularly for meetings or occasional long stays : remote working is also an available option.

■ Experience

KALYSTO Development and open-source integration targetting OpenERP partners
Freelance
2011 - ...
Senior development consultancy targeted to OpenERP partners as a complement to their functional expertise.

SÉCURACTIVE Development of a Network Monitoring Appliance
R&D Engineer
2008 - 2011
Working on the appliance's datastore and web GUI.

PORT'ABILITY Information Technology Adviser
Freelance
2004 - ...
In addition to my activities, I've carried out various missions mixing :

- **contact** skills (trainings, schooling),
- **strategical** skills (audit, network architecture),
- **technical** skills (developement, sysadmin).

... a few examples ...

■ Agence d'Urbanisme de la Région Havre - le Havre - France - 2007 et 2009
Audit of their Information System (based on COBIT 4.0)

■ Arcangelo for the Musicalta festival - Lyon, Rouffach - France - since 2004
Strategical and architecture deployment since 2008. (Deploying full Ubuntu LTSP network which is relocated seasonally to lent hardware.)

■ Franche-Comté University - Besançon - France - 2006
XHTML/CSS lecture to a hundred students of Licence and Master levels.

...

■ Technical Skills

DEVELOPEMENT – *languages, methodologies, community*

PYTHON language 5 years –	<u>ZCA, Zope3, unittest, buildout, buildbot, django, twisted, ...</u> <ul style="list-style-type: none">· Advanced bug fixes and features to the OpenERP core (write mode for mobile GUI, charts or calendar replacements).· Full python appliance development for 3 years at Securactive. Mainly working around database challenges (to achieve controlled data degradation) and GUI topics using buildout, buildbot, Zope3, and ZCA framework.· Development of internal tools for OpenERP partners (migration, upgrade, module creation helper)· Numerous small projects/tools released regularly using Python (shyaml : YAML for the shell, gitchange : Changelog from git log, colour : color system mangling, sact.epoch : mockable non-naive datetime ...)· Used occasionally django, twisted, pyramid in various small projects...
WEB languages 10 years –	<u>PHP, XHTML/CSS, Javascript, JQuery, underscore, web 2.0, JSON ...</u> <ul style="list-style-type: none">· Ranging from complex server side RDF synchronised database in PHP to simple bootstrapjs websites.· Bridged OpenERP to various external web technology (ie : google map, google charts, WYSIWYG famous js editor, Generic textarea js editor, js calendaring solution, ...)· Wrote some XUL and used RDF database to create an ERP for a couple of clients.
AGILE methods 7 years –	<u>TDD, code review, pair programming, retrospective, XP, Scrum, Lean ...</u> <ul style="list-style-type: none">· Agile Team with Securactive managed by Sebastien Douche (Co-organizer of Agile France Conference for 4 years) – (code review, pair programming, randori, kanban... for 3 years in a Team)· Enforcing agile concepts in tuxservices partner company, and using a subset of them (TDD, coding standards) to my freelance work since 2005.
OPEN-SOURCE community 10 years –	<u>regularly releasing projects to Open-Source community</u> <ul style="list-style-type: none">· creator or maintainer of utils and modules (15+) (on github Ok and github vaab profiles)· occasional contributions to numerous existing projects (as werkzeug to fix SSL proxy mode, procmail to add a new option allowing dry-run, zope.testbrowser and repoze.who for fixing trivial and less trivial bugs, dd_rescue for small changes of output and bug fixing, openerp-web and openobject-{server,addons} for countless bug fixes, new calendaring module, write mode to mobile version, and others as OOOP, tivoka, Elixir, ...)
GENERAL know-how –	<u>DVCS, Editors, databases systems</u> <ul style="list-style-type: none">· Using GIT daily (for 4 years), Emacs, vim and have used SVN (4 years), Mercurial (1 year), Eclipse ...· Have occasionally coded small fun projects in Ocaml, C, C++, FORTRAN, Lisp, PROLOG, ASM86...· Familiar with major DB systems (SQL, MySQL, PostgreSQL, Elixir, SQLAlchemy...)

LINUX bash, packaging systems, services, virtualization, thin clients
sysadmin
10 years –

- Started with Linux From Scratch to reach a deep understanding of distribution work, and now using Ubuntu/Debian since 8 years.
- Strong experience of **bash** to solve automated task of various complexity (10 years)
 - I implemented a distributed data communication system for Sécuractive probes that is still in usage 2 years after my depart (with bash using rsync, cron and standard GNU utils)
 - I wrote and use daily a replacement for Ubuntu Juju's cloud tool to read a subset of their Charm specification so we could use charms to document installation processes and execute these instructions to deploy Linux Containers for specific services (apache, ssl certification authority, openerp instances, vpn instances ...)
- Using a broad scope of services (emailserver stack, **apache2**, LDAP, virtualization, Thin Clients) for Musicalta administration, or small companies (10 years).

NETWORK DNS, routage, QoS, firewall, VPN, protocols
services
10 years –

- Architecture and management for 10 years of the musicalta administration (10 to 20 computers) with Ubuntu, Thin Clients, Synchronized backups through VPN, DHCP, DNS, full email stack, OpenVPN, occasional tunnels and samba sharing.
- I regularly use low-level utility as **netcat**, **tcpdump**, **wireshark**, **arping** or **ssh** tunnels.
- I worked for 3 years within Sécuractive Team analyzing and displaying raw network sniffer's data (Voice over IP, Network metrics, protocols)

VIRTUALIZATION DNS, routage, QoS, firewall, VPN, protocols
technology
4 years –

- Using **LXC** (Linux Containers) for Tuxservices partner company architecture for 2 years.
- Used **LXC** for integration process at securactive.
- Used **VirtualBox** headless at Musicalta to provide windows facility to Thin-Clients.

■ Education

2006 Master – Research – Software Engineering Degree
 Laboratoire d'Informatique de l'Université de Franche-Comté – Besançon – France
 Formal methods applied to validation and correctness proof of computer code.

2002 Licence Computer Science & Licence Mathematics
 Centre de Télé-Enseignement Universitaire – Besançon – France

■ Complements

Languages French (mother tongue), English (good technical writing skills, good oral comprehension and decent speaker).

Interests Electronics, Sciences, piano, travel ...

blog/microblogging <http://vaab.blog.kal.fr>, [+Valentin Lab](#), <http://twitter.com/vaab>