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About me

year of birth : 1982
married, 4 childrens

Hervé Beraud
Python Senior Sofware Engineer

Personal Philosophy

Time is a store of value much higher than any precious currency or material. Throughout our lives time acquires with money, we buy time. My job as DevOps is to automate and industrialize processes, so generate time for team and therefore value.

Education

2010 - now	**Engineer Degree in Computer Science**	CNAM Aix en Provence, France

Curriculum information systems.
Main subjects: Systems & Software Architecture and Security, Urbanism for Evolving Systems.

2009 - 2010	**BTEC Higher National Diploma in Software Development**	AFPA Istres, France

Main subjects: Software Architecture, Modeling Tools (Merise, UML).

1999 - 2001	**BTEC National Diploma in Landscape Architect**	Lycée Fontlongue Miramas, France

Agricultural college.
Main subjects: Design Public Landscape.

1997 - 1999	**BTEC First Diploma in Nursery Gardener**	Lycée Fontlongue Miramas, France

Agricultural college.
Main subjects: Cultivating, Harvesting, Transplanting Trees, Shrubs or Plants.

Awards

2016	**Winner of squad incubator contest**	French annual IT innovation contest

Design a DevOps solution for automatizing security scanning on web apps CI/CD workflow and project lifecycle

Technologies

python	★★★★★
docker	★★★★★
shell	★★★★★
CI/CD	★★★★★
rpm	★★★★★
fabric	★★★★★
jinja2	★★★★★
ansible	★★★★☆
django	★★★★☆
webhooks	★★★★☆
autobahn	★★★★☆
crossbar.io	★★★★☆
nginx	★★★★☆
html	★★★★☆
openstack	★★★☆☆
lxc/lxd	★★★☆☆
swarm	★★★☆☆
tripleO	★★★☆☆
kvm	★★★☆☆
php	★★★☆☆
java	★★★☆☆
c/c++	★★★☆☆
javascript	★★★☆☆
vue.js	★★★☆☆
latex	★★★☆☆
rancher	★★☆☆☆
kubernetes	★★☆☆☆

Architectures

restful	★★★★☆
services	★★★★☆
ntiers	★★★★☆
soap	★★☆☆☆

Methodologies

Agile	★★★★★
DevOps	★★★★★
Lean	★★★★☆
Kanban	★★★★☆

Contributions to open source projects

caching	**Pinterest - pymemcache**	community contributor
	Introducing new features, maintaining	
containers	**Podman**	community contributor
	Maintaining libpod, maintaining python podman API	
high availability	**sqlalchemy - dogpile.cache**	core contributor
	bugfix, reviews, maintaining	
time series	**Elastic Search - curator**	community contributor
	improve packaging	
automation	**Red Hat - ansible**	community contributor
	bugfix, code cleaning, implementing tests	
network	**Github - octodns (official github project)**	community contributor
	upgrading python packaging method	

Systems

fedora ★★★★★
archlinux ★★★★★
debian ★★★★★
ubuntu ★★★★★
alpine ★★★★★
rhel ★★★★☆
lfs ★★★☆☆
kali ★★★☆☆
bsd ★★☆☆☆
windows ★★☆☆☆
minix ★☆☆☆☆

Networks

ssh ★★★★★
http ★★★★★
tcp/udp ★★★★☆
xmpp ★★★★☆
osi ★★☆☆☆
sdn ★★☆☆☆

Databases

sqlite ★★★★☆
postgresql ★★★★☆
mysql ★★★☆☆
mariadb ★★★☆☆
oracle ★★☆☆☆

Tools

git ★★★★★
svn ★★★★★
jenkins ★★★★★
vim ★★★★★
gitlab ★★★★☆
github ★★★★☆
travis-ci ★★★★☆
semaphore ★★★★☆

Security

chroot ★★★☆☆
selinux ★★★☆☆
nmap ★★★☆☆
owasp ★★★☆☆
iptables ★★★☆☆
fail2ban ★★★★☆
metasploit ★★★★☆
fuzzing ★★☆☆☆
iso27001 ★★☆☆☆

Languages

French ★★★★★
English ★★★★☆

Experience

09-18 - Now   **Senior Software Engineer**   Red Hat - remote
Maintaining Openstack and focused on Oslo. Maintaining and developing mainstream open source python projects like openstack, podman, pymemcache, dogpile.cache, etc...

03-17 - 08-18   **Lead cloud DevOps architect**   Squad / Orange OINIS ITE, Toulouse, France
Architect, design, and deliver technical solutions for automatizing deployment of openstack tripleO platform. Design Ansible based products, continuous deployment system and infrastructure automation strategy.

09-16 - 03-17   **DevOps architect and Python lead developer**   Squad / CNES, Toulouse, France
Architect, design, develop and deliver european space program ISIS guidance system. Manage project workflow.

05-16 - Now   **DevOps Technical Leader**   Squad (internal), Toulouse, France
Team Technical management, manage DevOps community, animate technical events, create design and setup the squad official software forge. Apply security ehancements and best practices.

04-14 - 04-16   **DevOps architect**   BULL / EDF, Toulouse, France
Design and develop algorithms, solutions for call center and workload management system. Design and develop multi-channel agent desktop. Create and develop Python/Django webapps for generating, deploye, and maintaince version for C# project (automatized CI/CD).

09-13 - 03-14   **Embedded Software Engineer**   BULL / French Navy, Aix en Provence, France
Design continuous integration, design system architecture , AIX5.3 and Unix software.

02-13 - 09-13   **Software Engineer**   BULL / DCNS, Toulon, France
Design and develop electronic warefare system on the FREMM frigate project.

06-11 - 01-13   **Frontend / Backend Web Developer**   BULL / Virtual-expo, Marseille, France
Design and development of a world expert online exhibitions website on Linux/Apache/PHP/Zend platform. Design, development of a Python web crawler.

04-11 - 06-11   **System Administrator / Backend Developer**   Distrimag, Arles, France
Maintain data center environmental and monitoring equipment (IBM AS400). Virtualize physical server. PHP Development of stock managment software.

12-04 - 01-09   **Buisness Owner**   Damofli Fruits & Legumes, France
Manage marketing operations, accounting, sales plans, inventory management.

09-01 - 11-04   **Landscape Architect**   Local Council of Martigues, France
Manage marketing operations, accounting, sales plans, inventory management.

Personal projects

2018	**Niet - Parse yaml/json file from shell (click to see)** *python, git, pbr, github, pypi, vim*	Personal project
2017	**Cerber - seccomp docker profil generator (click to see)** *python, git, pbr, github, pypi, vim, syscalls, docker*	Personal project
2017	**KVManage - automatized kvm deployment (click to see)** *ansible, ubuntu, vim, github, kvm, git*	Community project
2017	**Apkbuild - build environment for apk (click to see)** *docker, docker hub, vim, github, alpine linux, alpine sdk, git*	Personal project
2016	**Machine - development environment (click to see)** *docker, docker hub, ubuntu, vim, git*	Personal project
2016	**Botanick - web application for collect emails (click to see)** *docker, python, flask, git, github, travis-ci, docker hub, git*	Personal project
2016	**Port Knocking Sequence Discovery Scanner (click to see)** *docker, python, git, github, docker hub, git*	Personal project
2016	**Mhackgyver official repository (click to see)** *Create and maintain tools for mhackgyver pentest team, git*	Community project
2016	**Discosub Dockerized Security Scanner (click to see)** *docker, python, docker hub, travis-ci, pypi, github, git, tor, ubuntu*	Personal project
2016	**Nmap Dockerized Security Scanner (click to see)** *docker, docker hub, github, git, nmap, tor, ubuntu*	Personal project
2016	**Director Dockerized Security Scanner (click to see)** *docker, docker hub, github, git, dirb, tor, ubuntu*	Personal project
2016	**Dockerized IRC server (click to see)** *docker, docker hub, github, git, ircd-irc2, ubuntu*	Personal project
2015	**Barcode Generator (click to see)** *python 3, svg, git*	Personal project
2013	**Security Best Practices Automatic Setup (click to see)** *python, iptables, debian 6, port-knocking, fail2ban, postgresql, nginx*	Personal project
2012	**Battle-Story Video Game (click to see)** *python, pygame, git, github, vim*	Personal project

More projects at https://github.com/4383

Memberships

community	**Tetalab (click to see)** *Design, share, learn*	Toulouse hacker space
community	**Python software foundation (click to see)** *Support local Python user group, regional workshop, encouraging usages*	World wide community
core	**Mhackgyver pentest team (click to see)** *World wide security contests, local events, ctf, share, learn, develop*	French pentest team

Latest update - March, 2018