

Pierre-François Carpentier

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Permis B



Skills

System

OS Debian, CentOS, Gentoo, FreeBSD

Packaging deb, rpm, ebuild

Network Keepalived, OpenVPN, DHCPd, VLANs

Virtualization ESXi, VirtualBox, Vagrant, KVM

Deployment Puppet, Kickstart, Preseed

Services

Web Server Apache, Lighttpd, Nginx, Tomcat

Database MySQL, PostgreSQL, Redis

Monitoring Nagios, NRPE, Logstash, Smpd

Directory 389 Directory, OpenLDAP

Other Bind, Ntpd, Cups

Security Syslog-ng, Rsyslog, OpenSSH, IPTables, PF

Programming

Language Shell/Bash, Python, Perl, Ruby, C, Ocaml, Java

SCM Git, Subversion, Mercurial

Other

Network theory Security, Routing, QoS, TCP/IP, ATM, MPLS

Computer Sciences Operations research, Compilation, Graph Theory, Data analysis, UML

Documentation reStructuredText, Markdown, L^AT_EX, OpenOffice

Language

French **Native**

English **Fluent**

Mother Tongue

TOEIC score of 940/990, daily practice

Experience

Professional Experience

2011–present **System Engineer**, *Communication et Systèmes*, Le Plessis Robinson, France.

Construction of complex systems for public/semi-public clients:

- Automatic deployment (Puppet)
- Debian and RedHat Packaging.
- Creation and signing of packages repositories (reprepro/createrepo, GPG)
- Build (Make, Ant)
- Deliveries industrialization
- Automatic installation(Kickstart/Preseed)
- DNS configuration (Bind)
- Databases configuration (MySQL/PostgreSQL)
- Directory configuration (389 Directory/OpenLDAP)
- Web servers configuration (Apache, Nginx, Tomcat)
- High Availability (SQL/LDAP multi-master replication, Keepalived)
- Debian/CentOS Configuration
- Monitoring (Nagios, NRPE, SNMP, Logstash)
- Virtualization (VMware ESXi, VirtualBox/Vagrant, KVM)
- Various scripting in Python/Shell/Perl/Ruby
- Operating manual (reStructuredText)
- Test procedures (Testlink)
- Project management system deployment (Trac)

Internships

2011 **System integration/Software development: secured mail infrastructure conception**, *Communication et Systèmes*, Le Plessis Robinson, France.

Conception and construction of a secured mail infrastructure, with end to end encryption based on x509 certificates. Conception and construction of POC mailing list system with end to end encryption. (cryptography with N receivers). Technologies: Linux, S/MIME, x509, Dovecot, Postfix, Thunderbird, ldap, tls, C, polarSSL library.

- 2010 **Web development**, *INRIA*, Roquencourt, France.
Within the European project Ideas, Conception and construction of an internet website specialized in viewing oriental manuscripts and their translations.
Technologies: Python, Django, HTML, CSS, Apache, Linux.
- 2009 **Biological modelization: conception of a cancer tumor model**, *Laboratoire IBISC*, Evry, France.
Bioinformatics research. Conception and development of a cancer tumor model in order to study the PA-1 molecule impact.
Technologies: C, Doxygen.

Education

- 2010–2011 **Master degree in network theory**, *Université Pierre et Marie Curie, Paris 6*, Paris, France.
Double degree with engineering diploma. Subjects : Routing, QoS, network protocols, simulation. . .
- 2008–2011 **Computer sciences engineering diploma**, *Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise*, Evry, France.
Study of Software development, Operating system, Network, Mathematics . . .
- 2005–2008 **Classe Préparatoire aux Grandes Ecoles**, *Lycée de Kerichen*, Brest, France.
Mathematics, Physics, Computer Sciences

Personal Interests

- Sport Competition sailing for 9 years.
- Music Guitar and piano practice.
- Electronic Building and fixing of various devices.
- Computer sciences Several personal projects (many of them published on GitHub), deployment of several services (Bind, openvpn, lighttpd, NFS) for personal needs.