

CÉDRIC DUFOUR

GNU/LINUX SYSTEM AND SOFTWARE ENGINEER

For more details and interactivity, please visit my résumé online:
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Nationalities: Swiss / French

Birthdate: September 9th, 1973

Family status: Single

Mailing: Chemin de Rochebord 15
CH-1860 Aigle

Languages: French (mother tongue)
English (fluent)
German (basic)



EXPERTISE

Software Engineering and Development

- Stand-alone applications** • Python, C/C++, Qt
- Web applications and services** • PHP, *Symfony*, CSS, Javascript
- Databases** • SQL, PL/SQL (*PostgreSQL*)
- Other** • shell scripting, GIT, *debian* packaging
 - please visit <https://github.com/cedric-dufour/> for further details

Linux Systems Engineering and Administration

- Operating systems** • Linux / *debian*, *ubuntu*
- Core network services** • DHCP / *isc.org's dhcp*, DNS / *bind*, NTP / *isc.org's ntp*
- Authentication services** • LDAP / *openldap*, RADIUS / *freeradius*
- Mail services** • SMTP / *postfix*, POP/IMAP / *dovecot*, MDA / *procmail*, *tmda*
- Storage services** • NFS, SMB/CIFS / *samba*
- Remote access services** • SSH / *openssh*, VPN / *openvpn*
- Printing services** • IPP / *cups*, *samba*
- Database services** • *postgresql*, *mysql/mariadb*, *influxdb*
- Web services** • HTTP / *apache*, SAML / *shibboleth*
- Virtualization** • *KVM*, *libvirt*, (*virtualbox*)
- High-availability / load-balancing** • *corosync/pacemaker*, *drbd*, *LVS* / *linux virtual server*
- Monitoring** • *syslog* / *syslog-ng*, *nagios*
- Installation and configuration** • PXE / *systemimager*, *debian* (packaging)
- Other** • PKI/X.509 / *openssl*, *owncloud*

Server Engineering and Administration

- Hardware** • *Lenovo(IBM) BladeCenter* and *Flex System* chassis and servers

Network Engineering and Administration

- Hardware** • *HP ProCurve* switches (ethernet) and access points (wlan), *BNT* switches (virtual fabric), *Fortinet (Fortigate)* firewall appliances
- Technologies** • VLAN, 802.1X, *iptables*

TRAINING AND CERTIFICATIONS

- 2013.02 • **IPv6 Workshop** – Frank Herberg and Alexander Gall, SWITCH (Zürich, CH)
- 2011.05 • **Lustre Workshop** – R.Fehrenbacher and P.Kruse, Q-Leap Networks (Ehningen, DE)
- 2010.08 • **Dynamique de Gestion de Projet** – Georges A. Gessler (Martigny, CH)
- 2007.08 • **Software Architecture** – Christian Alt, Digicomp Academy (Lausanne, CH)
- **Design Patterns** – Christian Alt, Digicomp Academy (Lausanne, CH)
- 2006.12 • **Advanced C++** – Jack Tardy, Digicomp Academy (Lausanne, CH)
- 1999 • **Nortel Networks DMS-100F** – Nortel Training Center (Amsterdam, NL)

JOBS AND POSITIONS

- 2006.10 – ongoing • **Idiap Research Institute (Martigny, CH) – Software and System Engineer**
Responsible for Linux systems along network and security architecture.
System engineering and administration (~200 hosts).
Network engineering and administration (~1000 ports).
Web applications development (PHP/Symfony).
- 2005.02 – 2006.04 • **VS Informatique (Martigny, CH) – IT Engineer**
Business customers support.
New tools and services development and setup.
System (Linux / Windows) and network setup, administration and troubleshooting.
- 2001.10 – 2005.01 • **Cédric Dufour / Cogito Ergo Soft (Verbier, CH) – Independent Contractor**
Web applications development.
System (Linux / Windows) and network setup, administration and troubleshooting.
- 1999.03 – 2001.06 • **STAR Telecom (Geneva, CH) – Technical Manager**
STAR Telecommunication Ltd (USA)'s swiss branch setup
Technically responsible for telecommunication infrastructures (Nortel DMS-100E) operations, local network and system (Windows NT4) administration, as well as interconnection projects management; Leading a four-employee team.
Software development (internal tools).
- 1998.02 – 1999.02 • **Laboratoire de Traitement du Signal (EPFL, Lausanne, CH) – Ph.D Student**
Algorithms research and software development for biomedical images processing and analysis

SCHOOLS AND DIPLOMAS

- 1992 - 1997 • **Engineer in Electricity (low power) – École Polytechnique Fédérale de Lausanne (EPFL, CH) - master**
Specializations: electronic, electromagnetism, audio, signal processing and telecommunication
Results: theoretical 8.8 / 10, practical 8.0 / 10
- 1988 - 1992 • **Scientific Diploma – Collège Claparède (Geneva, CH) – high school**
Results: overall 5.6 / 6

OTHER

- Licenses**
 - **Car + Motorbike** (categories: A, B, D1, BE, D1E)
 - **Sailboat + Motorboat** (categories: A, D)
 - **Private Pilot** (EASA-PPL(A)/SEP+NIT)
 - **Sailplane Pilot** (EASA-SPL)
- Hobbies**
 - **Sport and outdoor activities** (mainly windsurfing, skiing, biking, hiking and martial arts)
 - **Flying** (single engine airplanes and sailplanes)