

CÉDRIC DUFOUR

GNU/LINUX SYSTEM AND SOFTWARE ENGINEER

For more details and interactivity, please visit my résumé online:
<http://cedric.dufour.name/cv>



E-Mail: cedric.dufour (at) ced-network.net **Location:** CH-1860 Aigle
Nationalities: Swiss / French **Languages:** French (mother tongue)
Birthdate: September 9th, 1973 English (fluent)
Family status: Single German (basic)

EXPERTISE

Operating Systems • Linux / *debian, ubuntu*
Platforms • AMD / Intel (x86), *Raspberry Pi (ARM), Arduino (AVR), Garmin (watches)*

Software Engineering and Development (Linux-centric)

Stand-Alone Applications • Python, Go, C/C++, Qt, *Monkey C*
Web Applications/Services • PHP, *Symfony*, CSS, Javascript
Databases • SQL, PL/SQL (*PostgreSQL*)
Other • shell scripting, GIT, *debian* packaging, cryptography (applied)
• please visit <https://github.com/cedric-dufour/> for further details

Linux for the Cloud

Platform • *Exoscale*
Virtualization • *QEMU/KVM, libvirt*
Monitoring / Observability • *prometheus, grafana*
Deployment • *packer, terraform, consul, docker, kubernetes, CI/CD / jenkins, github*
Security • *vault*

Linux for the Enterprise

Network Services • DHCP / *isc.org's dhcp*, DNS / *bind*, NTP / *isc.org's ntp*
Authentication Services • LDAP / *opendap*, RADIUS / *freeradius*
Mail Services • SMTP / *postfix*, POP/IMAP / *dovecot*, MDA / *procmail, tmda*
Storage Services • NFS, SMB/CIFS / *samba*, ZFS / *OpenZFS*
Remote Access Services • SSH / *openssh*, VPN / *openvpn, wireguard*
Printing Services • IPP / *cups, samba*
Database Services • *postgresql, mysql/mariadb, influxdb*
Web Services • HTTP / *apache, nginx, haproxy*, SAML / *shibboleth, owncloud*
High-Availability / Load-Balancing • *corosync/pacemaker, drbd, LVS / linux virtual server*
Monitoring / Observability • *syslog / syslog-ng, nagios*
Deployment • PXE / *systemimager, debian* (packaging)
Configuration • *puppet, ansible, gcfg*
Security • PKI/X.509 / *openssl*, PKCS#15/PKCS#11 / *opensc*
Networking • BGP / *bird*, VLAN, 802.1X (EAP), IPv6, *iptables*

JOBS AND POSITIONS

- 2019.07 – now**
 - **Exoscale (Lausanne, CH) – Site Reliability Engineer**
Emphasis on security and Kubernetes.
- 2006.10 – 2019.06**
 - **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

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)

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+TOW)
 - **Sailplane Pilot** (EASA-SPL)
- Hobbies**
 - **Sport and outdoor activities** (mainly windsurfing, skiing, biking, hiking and martial arts)
 - **Flying** (single engine airplanes and sailplanes)