

Jérôme FLESCH

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31 years old

Nationality : French

Driver's licenses: Car and motorcycle

Software Engineer

Professional experience

- Since December 2012** **Software engineer – TV decoders**
- Python programming for the user interface of Proximus TV decoders (since May 2016).
- C/Unix programming for the middleware of the Canal+ TV decoders (until May 2016).
Tools used : Python, Android, GNU/Linux, GCC (SH4, ARM), DVB, Git, Mercurial, Redmine, Gitlab

Wyplay, Marseille area, France – <http://www.wyplay.com/>
- Feb. 2009 – Dec. 2012** **Software engineer – Network firewalls**
C/Unix programming on NETASQ firewalls of series U and F.
Mainly in charge of the following software modules :
- High availability mechanism - Support of the internal Ethernet switches
- Reporting functionality - Filtering rules parsing and validation
Tools used : FreeBSD, GCC (x86), Subversion, Git, Mantis, Sqlite

NETASQ, Lille, France – <http://www.netasq.com/>
- March – August 2008** **End-of-study internship (part of the UTBM curriculum) - Internationalization**
Creation of a tool for graphical interface testing to ensure that translations won't have unexpected side effects. Done as member of the internationalization team.
Tools used : Java, MySQL, Perforce, Google technologies
Google, Mountain View, USA – <http://google.com/corporate>
- Sept. 06 – Feb. 2007** **6 months internship (part of the UTBM curriculum) – Network firewalls**
Creation of an object base shared in memory and accessible to various services and processes used on the NETASQ firewalls (C Unix programming).
Tools used : FreeBSD, GCC (x86), Subversion

NETASQ, Lille, France – <http://www.netasq.com/>
- June – August 2006** **Student during the Google Summer of Code 2006 – P2P networks**
Organization : Freenet Project Incorporated (<http://www.freenetproject.org/>)
Project : “ Thaw ”, a GUI for filesharing on top of Freenet written in Java / Swing.
Tools used : J2SE, Swing, Ant, Hsqldb
<http://code.google.com/intl/en/soc/2006/freenet/about.html>
<http://wiki.freenetproject.org/Thaw>
- April – mid-June 2005** **2.5 months internship at the end of the two-year technical degree**
Web interface prototyping, using JSP servlets, OJB, Struts and Tomcat, for the Compact Muon Solenoid (CMS) tracker configuration database exploitation. The CMS is an experiment made by IrES which is part of the Large Hadron Collider (LHC) made by CERN.
Tools used : Java, J2EE, OJB, Oracle9i, CVS

Subatomic Research Institute (IreS), Strasbourg, France – <http://ireswww.in2p3.fr/>

Education

- 2005-2008** Engineer's degree in software engineering (equivalent to a Master's degree)
Main field : Real time systems, Embedded and Mobile computing
at the Université de Technologie de Belfort-Montbéliard (UTBM), France.
- 2003-2005** Two-year technical degree in telecommunications and networking (DUT GTR).
at the IUT of Colmar, France.

Computer science skills

Operating systems	GNU/Linux (since 2001) : Debian, Fedora, Ubuntu Experienced. Daily use at home and work. BSD : FreeBSD Experienced.	
Programming	C (Unix) : Experienced Java (J2SE / Swing) : Skilled	Python : Experienced
Databases	SQLite : Skilled	
Networks	NETASQ firewalls : Certified administrator (2006) IPv4 : Skilled	IPv6 : Good knowledge

Languages

French	Native
English	Read, written and spoken fluently 6 months internship in the US (2008)
German	Very basic knowledge

Non-professional activities

Since November 2013	Volunteer at the French Red Cross , Marseille, France <ul style="list-style-type: none">• Certified First Responder (team leader since May 2016)• “Samu social” (charity work ; team leader since May 2015)
Since June 2011	Developer of Paperwork Paperwork is a tool to make papers searchable quickly and easily (graphical user interface). <i>Tools used</i> : Python, Gtk, Sane (scanner support), Tesseract (OCR), Git https://openpaper.work/
March 2012 – Decembre 2012	Volunteer at the local animal shelter , Lille, France (Ligue Protectrice des Animaux de Lille)
June 07 – August 2007	Google Summer of Code 2007 <i>Role</i> : mentor <i>Organisation</i> : Freenet project Inc. (http://www.freenetproject.org/) <i>Project</i> : “Echo”. A publishing software designed to publish blogs on top of the Freenet network.
Febr. 07 – Febr. 2008	UTBM – Laboratory work Development of an USB driver and next of an Bluetooth driver for an embedded operating system for the Lego Mindstorms NXT (language C ; processor ARM7). This work was part of NxOS (http://nxt.natulte.net/nxos/trac) and done in collaboration with David Anderson.
June 06 – August 2006	Google Summer of Code 2006 <i>Role</i> : student <i>Organisation</i> : Freenet project Inc. (http://www.freenetproject.org/) <i>Project</i> : “Thaw”. Thaw is a Java/Swing GUI for filesharing and forums on top of the Freenet network.
Febr. 07 – Febr. 2008 & Sept. 05 – Febr. 2006	Network co-administrator of a student computer network , Belfort, France At the student lodge called “La Riverotte” (about 200 computers)
April 2005	Prologin 2005 finalist (national programming competition) https://prologin.org/archives/2005/final/scoreboard
April 2003 – April 2004	Secretary of the computer club at the IUT (University) , Colmar, France