

Jérôme FLESCH

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Birthday : 12/19/1985
Nationality : French
Status : Single
Driving licences: Car and motorcycle

Software Engineer

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.
- June 2003** Scientific baccalauréat diploma with specialization in engineering and mathematics (equivalent to the HSLC)
at St-André, Colmar, France.

Professional experience

- Since February 2009** **Software engineer**
C/Unix programming on NETASQ firewalls of series U and F.
Mainly in charge of the following software modules :
- High availability mechanism (present) - Support of the internal switches (present)
- Reporting functionality (present) - Filtering rules parsing and validation (past)
Tools used : FreeBSD, GCC, Subversion, Git, Mantis, Sqlite

NETASQ, Lille, France – <http://www.netasq.com/>
- March – August 2008** **End-of-study internship (part of the UTBM curriculum)**
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>
- June – August 2007** **Mentor during the Google Summer of Code 2007**
Organization : Freenet Project Incorporated (<http://www.freenetproject.org/>)
Project : "Echo ", a plugin for the Freenet node (Java) allowing users to quickly publish blogs and other kinds of sites on Freenet
<http://code.google.com/intl/en/soc/2007/freenet/about.html>
- Sept. 06 – Feb. 2007** **6 months internship (part of the UTBM curriculum)**
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, Subversion

NETASQ, Lille, France – <http://www.netasq.com/>
- June – August 2006** **Student during the Google Summer of Code 2006**
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/>

Computer science skills

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

Languages

French	Native.
English	Read, written and spoken fluently. Scored 780 out of 990 at the TOEIC evaluation (2006). 6 months internship in the US (2008)
German	Very basic knowledge.

Non-professional activities

Since June 11	Developer of Paperwork Paperwork is a tool to make papers searchable. <i>Tools used</i> : Python, Gtk, Sane, Tesseract (OCR), Git https://github.com/jfilesch/paperwork#readme
Since Sept. 08	Developer of AlexJ The FGHA (Federation Genealogique de Haute Alsace) is an association aiming at reading ancient genealogical acts (baptisms, weddings, death certificates, etc), rewriting them on computer, sorting them and reprinting them. AlexJ is a tool designed to help association members rewrite genealogical acts as efficiently as possible. <i>Tools used</i> : Java, Swing, SQLite, Git http://jfilesch.kwain.net/prog/alexj
Febr. - June 2007	UTBM – Laboratory work Development of an USB 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.
August 06 – Febr. 2007	Main developer of Thaw Thaw is a Java/Swing GUI for filesharing and forums on top of the Freenet network. http://wiki.freenetproject.org/Thaw http://www.freenetproject.org/
Febr. 07 – Febr. 2008 & Sept. 05 – Febr. 2006	Network co-administrator of a student computer network At the student lodge “La Riverotte”, Belfort (about 200 computers)
April 2005	Prologin 2005 finalist (national programming competition) http://www.prologin.org/?q=archives/2005/finale
April 2003 – April 2004	<small>git/h</small> Secretary of the computer club at the IUT of Colmar