

# Software Engineer

## Antoine JACQUET

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## Objectives

Analysis and conception in various fields of computer science: Web, databases, systems and networks.  
Projects management using various technologies and involving several programming languages.

## Work experiences

### Since 2009 **Freelance**

Facebook applications development:

- **Sidièse** : application for the French TV game "La porte ouverte à toutes les fenêtres"
- **Externeo** : application for the Stage.fr website
- **Mairie de Paris** : application for Paris city halls

*Facebook PHP API, FBML langage*

### 2008-2009 **Software Engineer in a Linux and Open Source company**

Linux software development for internet gateways:

- OpenWRT environment on a MIPS architecture
- GCC toolchain GCC with cross-compilation
- coding on the PC and debugging on the target
- Linux kernel drivers to handle GPIO, leds, buttons and relays on the gateway
- use of the Linux kernel internals (timer, mutex, device, procfs, etc)
- high-level applications in C++, asynchronous communication with the Linux devices (ioctl, select), using libevent
- time synchronization plugin using the NTP protocol

### 2003-2008 **Software Engineer / HRIS Analyst** (human resources information systems)

Projects management at ACS for the human resources of various companies:

- **Motorola / Freescale**: automatic generation of salary attestations with PDF formatting, presence board of employees based on SAP, updates and deployment of the payroll systems for the Motorola / Freescale split, etc  
*Technologies: dynamic websites in PHP and PL/SQL, SQL\*Report applications, automatic processes and CGI in Perl*
- **General Motors**: conception and analysis of an authentication portal based on security questions, and a hierarchy checking tool  
*Microsoft technologies: ASP dynamic websites, SQL Server database, IIS web server*
- **Continental** : manage deployment of the new payroll environment (servers, databases, VPN)

### 2002-2003 **Internship**: Human resources information systems at MOTOROLA Toulouse

Design and development of Web/Oracle intranet applications (8 months)

Project management, SEI Level 3 certification, PL/SQL and Perl coding

### 2001 **Summer job**: Inventory at the "COGEMIP" for the Euro currency transition (2 months)

### 2000 **Internship**: Built the website for the "Comité d'Entreprise" of ONERA Toulouse (2 months)

### 1999 **Internship**: Built the website for the "Dép. PRospective et Synthèse" of ONERA (2 months)

### 1998 **Teaching**: I gave some lessons for the computer science section of my school: "Lycée Pierre de Fermat" (Pascal coding)

## Formation

### 2003 **DESS Informatique Fondamentale**: Université Paul Sabatier, Toulouse

Specialised Higher Studies Degree, equivalent to an master's degree in computer science  
Software engineering, hardware, networks and operating systems, databases and computer human interfaces

With honours, top ranked student

- 2002      **Maîtrise Informatique:** Université Paul Sabatier, Toulouse  
Equivalent to a Master's degree in computer science  
Student and research program on JavAct at IRIT (mobile adaptive agents)
- 1998      **Baccalauréat S:** Lycée Pierre de Fermat, Toulouse (France)  
Equivalent to an A level specialized in mathematics  
Specific studies in computer science, english and spanish

## Skills

- Languages:    French (mother tongue), fluent in English and some knowledge in Spanish
- OS:            DOS, Windows 9x, Windows NT, Linux, UNIX
- Coding:       C, Java, Pascal, Perl, PHP, HTML, ADA95, PC and 68000 assembly code, Shell, Prolog, SQL and PL/SQL, Scheme...
- Servers:      Apache, Samba, BIND, Sendmail, DHCP, MySQL...
- Methods:     Quality and project management, planning, specification, UML design

## Personal experiences

- 2008      DTV-5100, a Linux driver for a DVB-T USB dongle, integrated since kernel 2.6.28  
Linux system programming, module API, DVB integration, USB and I2C messages
- 2007      Launch of Eternity2.fr, a French distributed computing project  
Client coded in C, server coded in PHP/MySQL, website using Drupal
- 2006      Presentation of Web 2.0 technologies for the "Master Génie Logiciel et Répartition"  
XHTML/CSS, AJAX (Asynchronous Javascript And Xml), RSS syndication
- 2004      zr364xx, a project that brings support under Linux for some webcams, integrated since kernel 2.6.22  
Linux system programming, module API, video4linux API, USB and I2C bus programming, JPEG/MJPEG (de)compression
- 2003      FAPG, a tool to generate list of audio files  
Coded in C, binary files format analysis (MP3 and OGG), directories recursion
- 2002      irssistats, allows to generate IRC stats based on irssi logs  
Coded in C, text parsing, regular expressions and HTML generator
- 2001      Winner of the French National Contest of Computer Science "Prologin 2001"  
Contest in 3 steps: a questionnaire, semi-finals, and a final with 100 finalists coding for 36 hours
- 2000      <http://royale.zerezo.com/>, my website  
Hosts and shows my projects
- 2000      zeRezo.com administration, my personal server on a DSL line  
Debian GNU/Linux operating system, network, tools and servers management

## Miscellaneous

- Driving licence and personal car  
Rollerskating