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# Software Architect

*Debian GNU/Linux specialist*

*International mobility*

## CAREER OBJECTIVE

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Work into software architecture using design patterns, automatic testing tools, UML and other modeling tools. To lead developers on cutting-edge technology (Ajax/Web2, Voice over IP, etc).

## PROFESSIONAL EXPERIENCE

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03/2007 – now

**Software Architect, Co-founder** (*Conovae, Paris*)

- ✓ **Project leading** (*leading of large projects, including writing specifications documents, workflow diagrams, setting timeline, hiring engineer and founding a team, finding providers for IP transit, hosting, bank payments, taking care of non-computer parts of the project.*)
- ✓ **Software architecture** (*software development for large projects including large scaled websites, web2 community websites, bank workflows, etc.*)
- ✓ **Software optimization** (*development of C modules for high level languages including Perl, C#, Ruby or Python. Performance may improve of 1,000 times.*)
- ✓ **Database development** (*database architecture for large volume database, over 100 millions entries. Database optimizing for high traffic databases.*)

10/2005 – 03/2006

**Technical Expert** (*Pekin, Paris*)

- ✓ **Development expert** (*improvement of the Wanadoo selling's website platform (Pekin's customer), development of a secure way to fetch credit cards (VISA) informations, management of the relationship between Pekin and the server's host.*)
- ✓ **Software architect** (*installation of new procedures and tools for the company's development processes.*)
- ✓ **Network architect** (*complete rework of the private network and servers, hiring of new employees for applying the new architecture.*)

03/2005 – 07/2005

**Software architect** (*Wengo SAS, Boulogne-Billancourt, France*)

- ✓ **Modeling of the Wengo platform** (*Study the Wengo network platform*)
- ✓ **Modeling of a Voice over IP software** (*Ideal conception of a VoIP software using SIP. The software uses C#, and the modeling uses UML, MVC compliant models, design patterns as much as possible. More informations is available at <http://penso.info/wengo/>.*)

03/2000 – 03/2003

**IT Manager** (*DBee SA, Paris*)

*DBee is part of Groupe Image. It is specialized in video and audio streaming on private and public networks. It works with 30% of the French companies on the French Stock Exchange (Saint-Gobain, EDF, LVMH, Vivendi, Suez, France Telecom, M6, Philips, etc). DBee covers their annual general meeting, and special events. It employs about 10 people.*

10/1998 – 11/1999

**IT Manager** (*WorldMedia, Paris*)

- ✓ **Existing development.** *continued to use a private system based on PERL to handle websites with a high volume of information; it involved, for example, the official website of The Cannes Film Festival and the FashionLive website (for Haute Couture and Prêt-à-porter fashion shows from Paris, London, New York and Milan).*
- ✓ **Development** of specific tools for system and network administration.

## TECHNICAL PROFICIENCY

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- Language :** *Templeet, LISP, B, C, C++, C#, Python, Java, Perl, Ruby and Ruby on Rails, Shell, SQL, XML/XSL, XHTML, and L<sup>A</sup>T<sub>E</sub>X.*
- Platform :** **Debian GNU/Linux**, most of UNIX systems (*HP-UX, Solaris, Irix, \*BSD, \*Linux, MacOS X*).
- Networking :** *SNMP, QoS and Linux applications, PPP, NFS, NTP, Rsync, Bind, Web, MySQL, PostFix, Qmail, Sendmail, Wu-FTPd, ProFTPd, OpenSSH, Taylor UUCP, Squid, Apache, etc.*
- Security :** **Firewalls** (*iptables*), **cryptography and software** (*Ipsec, PKI et SSL*), I.D.S. (*Snort*), audit (*NMAP* and *Nessus*) and VPN (*Linux FreeS/WAN*), GnuPG.
- Software :** **Most of GNU tools** : *vi(m), (X)Emacs, make/Makefile, sed & awk, CVS, etc.*
- Language :** Fluent English (reference : Mr Beaty, US Consulate of Rennes, beatyeb@state.gov), notions of German, Spanish, and Korean (Hangul).

## PERSONAL PROJECTS

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- auth\_generator**      **Authentication generator for Ruby on Rails**  
*GPL/BSD licensed authentication generator. It focuses on performance, is currently used on website with a high number of users and hits and is efficient for the user, and the administrator. It will offer an admin interface to handle users and their roles.*
- LinuxFr**            **French website about Linux**  
*President of the French association LinuxFr for 6 years, author of the website [LinuxFr](#) (about 430 millions hits in the last 12 months, 30,000 comments posted per month, 50,000 users registered).*
- Templeet**          **Co-author of Templeet**  
*Development of the Templeet language, optimized for web publication (GPL license). It works on all platforms (Unix and Windows) and it has performance level close to static pages. Some numbers : 12 contributors, 170 members in the user list, about 20,000 lines of code for the core.*
- SomeNews**         **News Aggregation System**  
*Author of SomeNEWS. SomeNEWS is a news spider (GPL license) developed in Perl language. It fetches information on websites to extract articles. A plugin system allows users to choose the output (MySQL, screen dump, ASCII text, HTML, etc.*
- daCode**            **Content Management System**  
*Author of daCode. daCode is a GPL licensed software using PHP and focusing on clean code, modularity, and speed (cache layers, object oriented development, about 27.000 lines of code).*
- SomeList**          **Mailing-list archive system**  
*Author of SomeList. SomeList is a website offering mailing-list archives. The backoffice engine was developed with Perl, the front website uses Templeet. It requires no good.*

## EDUCATION

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- 2004-05            **Master degree of computer science emphasis on software development, with honours Cum laude** , IFSIC, University of Rennes 1, France.
- 1996-97           **Baccalauréat scientifique (Terminale Sti)**, Lycée Gustave Eiffel, Cachan, France.
- 1995-96           **Senior Year Richmond Community High School Diploma**, Michigan, U.S.A.

## INTERESTS

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- Sport :**            Rollerskate, swimming, snowboard, and team sports.
- Diver :**           **Free software community**, photography, journalism, foreign languages, travel. First aid diploma.