

Romain Bignon

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French nationality
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Developer

Professional Experience

Avencall (C) *Paris* 2009–2011

Developments on the [Asterisk](#) free PABX for the free telephony appliance XiVO.

- Moderation features in conference rooms.
- Design and implementation skills routing in call queues.
- Joined the `chan_sccp-b` team, a third Asterisk module to support CISCO phones.

INL (Python, C) *Paris* 2007–2009

Developer of the identifying firewall [EdenWall](#).

— Conception and implementation, then maintainer, of `NuLog 2`, a free software of `Netfilter` and `NuFW` log analysis, written in *Python* using the *Twisted* and *Nevow* frameworks.

The software goal is the network traffic analysis, detection of irregular usage, and display of statistics, or generation of PDF reports.

- Conception and implementation of `NuLog 3`, written in *Python* using the *Twisted* and *PyQt* frameworks.
- Conception and implementation of the centralised administration tool to manage several firewalls.
- Development on the other components of the [EdenWall](#) project.
- Contributions to `NuFW` and `Ulogd 2` projects.
- Most of above projects are packaged into every GNU/Linux distribution.

RDL (C++, PHP, Oracle) *Paris* 2005–2007

Wrote a web interface for the [Rhapsodie](#) music school management software, to let students and teachers interact with their data.

This software is designed with a C++ backend, and a PHP web frontend.

Free Softwares

Ass2m (Python) 2011

The [Authenticated Social Storage Made for Mothers](#) project is a free web application useful for sharing files (with support for photos galleries, videos, etc.) or organizing events with your friends, proving an alternative to Facebook or other centralized social networks.

Data is self-hosted and focused primarily on permissions management to protect privacy and to control exactly who can access what information.

Weboob (Python) 2010–2011

Console and graphical applications which interact with websites.

[Weboob](#) is a framework which provides a core library, modules for each supported website, and several applications which transparently call modules with wanted features.

- Main developer and manager
- 56 modules for video, bank, bittorrent, travels, newspapers, content, bugtrackers, etc. websites
- 21 applications
- 25,000 lines of code under the AGPLv3+ license

- Minbif (C++, libpurple)** 2009–2011
 IRC gateway to more than fifteen instant messaging networks, which supports file transfers or webcam display in ASCII art, among others.
 Wrote a libpurple plugin to support the linuxfr.org board.
 — Main developer
 — 15,000 lines of code under the GPLv2 license
 — Included into Debian, Ubuntu, Arch Linux, Gentoo, FreeBSD, OpenBSD, ...
- Music Player Daemon (C)** 2009–2010
 Contributor of the free softwares MPD, MPC, libmpdclient and ncmpc.
 These subprojects of the **Music Player Daemon** project represent more than twenty developers, and more than 50,000 lines of code.
- Peerfuse (C++, Fuse)** 2008–2009
 A distributed peer-to-peer file-system free software, which addresses to performances, redundancy and security issues.
 — 13,000 lines of code under the GPLv2 license
- Men Are Ants (C, C++, SDL)** 2005–2008
 Strategic game in 2D, where players fight for territories with several kind of units.
 — Main developer
 — 30,000 lines of code under the GPLv2 license
- SCoderZ (C)** 2001–2005
 As part of the IRCube Internet Relay Chat network, wrote **SCoderZ**, an IRC services suite to manage user accounts and channels.
 — 12,000 lines of code under the GPLv2 license

Skills

- Programming: - High level: C (10 years experience), C++ (7 years), Python (5 years)
 - Good Knowledge: Bash, PHP, Perl, Java, Javascript, Pascal, D
 - Libraries: STL, Qt, PyQt, SDL, Glib, Fuse, Twisted, Mechanize, Django
 - Tools: vim, GCC, GDB, Valgrind, git, Subversion, CVS, Buildbot
- Operating systems: - Used every day: Debian GNU/Linux, Gentoo
 - Knowledge: OpenBSD
- Networks: - IP, TCP, UDP
 - IRC, HTTP, FTP, DNS, DHCP, POP, SMTP
- Administration: - Netfilter, NuFW, BIND, OpenVPN, KVM
 - Apache, OpenSSH, Postfix, Gitolite, Prosody
- Other: - Databases: MySQL, PostgreSQL, Oracle
 - Markup languages: HTML, XHTML, CSS, ReST
 - Keymap: fr-dvorak-bépo
 - High self-learning and adaptability skills

Publication

- “Weboob, the web suppository” in LSM(RMLL) (July, 2010).
 “Minbif — An IRC gateway to the modern world” in LSM(RMLL) (July, 2010).
 “Peerfuse, peer-to-peer distributed filesystem” in LSM(RMLL) (July, 2008).
 “Principes et structure des réseaux IRC” in GNU/Linux Magazine France (February, 2007).

Languages

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|---------|---------------|
| French | Mother tongue |
| English | Fluent |