

Jonathan Ballet

Software developer

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Experience

Vocational

- Mar. 2013–on going **Freelance software developer & system administrator, Grenoble, France.**
- implementation of a Domain-Specific Language (DSL) for querying and filtering aggregated network data on hundreds of different fields (*SecurActive, France*)
 - migration of the server infrastructure towards the **Proxmox** virtualization environment; implementation of a configuration management tool based on **Salt**;
 - training of the development team (Git, Python packaging infrastructure) (*Rodacom, France*)
- Oct. **Software Engineer, SecurActive, Paris, France.**
- 2008–Dec. 2010 Development and quality assurance of the **Performance Vision** appliance, which monitors and provides diagnostics on various metrics related to networks' performance:
- as a member of the R&D team, I participated to the main product's development, from the data collection back-end to the user interface (Python);
 - I was also taking care of the developers' infrastructures, most notably adapting and fixing the externals libraries and tools used, along with the upstream integration (internal mirrors, Buildout and Python components), the installation and the maintenance of the continuous integration tools (Buildbot) and the evolutions of the version control system (Mercurial, Git);
 - as part of the Quality Assurance process, I implemented tests to ensure the installation and the upgrade processes were working efficiently.
- Oct. **Internship, Verimag, Grenoble, France.**
- 2007–Oct. 2008 Implementation of the code generation back-end for the **Lustre V6 compiler.**
- as an internship student, I took over the development of the back-end of the Lustre V6 compiler and implemented in OCaml a prototype which transformed a strict subset of Lustre source code into C source code, assuring the safety properties of the language;
 - implementation of a tests suite containing both unit and functional tests of the back-end compiler.
- Jan. **Software developer / System Administrator, Rodacom, Grenoble, France.**
- 2004–Oct. 2008
- Main developer of the *Convert'Immo* platform, which imports, transforms and exports estate agencies' data from more than 50 different softwares to more than 30 different mediums (including websites, newspapers and other estates management softwares).
 - Design and implementation of the core functionalities using Python and PostgreSQL;
 - Implementation of several importers/exporters, notably a private sharing system between several softwares, for members of different French estate agencies' organisations.
 - Developer of *Connect'Immo*, an estate properties management software.
 - main developer of the server, which was storing, syncing and sharing the estate agencies' data;
 - specification and implementation of a syncing protocol, allowing the client softwares to be kept up to date, while providing complete working capabilities if there were offline for some time.
- Sep. **Developer / lead developer.**
- 2010–now I'm one of the developer and project manager of **Sonata**, a client for the Music Player Daemon. I helped the Python 3/Gtk 3 port, fixed bugs, cleaned up the code and provided new features.

Computer skills

Language Python, OCaml, Javascript

Framework Pyramid, Zope Toolkit (ZTK), jQuery, Twisted, PyGObject, PyQt4

Databases PostgreSQL, MySQL, SQLite, ZODB

VCS Git, Mercurial, Subversion

Miscellaneous

- Nov. **PADI Divemaster & dive center manager**, *Dive Concepts*, Pemuteran, Bali, Indonesia.
- 2012–Dec. Management of the dive center operations (staff and guests) and guiding dives, in the North-West area of Bali, Indonesia. Cleaning and inspection of the **local artificial reef**.
2012
Reference: Nicolas Marcant
- May. **PADI Divemaster**, *Kanawa Island Diving*, Kanawa Island, Indonesia.
- 2012–Oct. I've been certified as a PADI Divemaster #312101 and lead day trips into the Komodo National Park, world-famous for its strong currents and challenging dives.
2012
Experiences include leading divers underwater, dive briefings, handling boat logistic, assisting dive courses and helping the other dive center operations (taking care of guests, maintenance, helping students, accounting, etc.)
Reference: Ed Statham ed@kanawaislanddiving.com +82144802882
- May. **WWOOFer**, *South Korea & Japan*.
- 2011–Oct. As part of my gap year in Asia, I WWOOFed 4 months in Korea and several weeks in Japan. Experiences include making green tea in a Buddhist temple, planting rice in an organic farm, building eco-friendly houses and shelters in an alternative high-school, helping running a cafe (serving customers, cleaning, preparing dishes), assisting English classes, harvesting rice and other cereals, cooking and preparing a guest-house.
2011

Education

- 2003–2008 **Master degree**, *CNAM*, Grenoble, France.
Computer Science: Software Architecture. *Evening classes*.
- 2001–2003 **2-years technical degree**, *IUT 2*, Grenoble, France.
Computer Science: Software Engineering
- 2001 **High School Diploma**.
With Honours

Miscellaneous

- Apr. **Gap year**.
- 2011–Jan. A journey across East-Asia. *Online journal*, *traveling map*
2013

Languages

French	Fluent	<i>Mother-tongue language</i>
English	Conversational	<i>Used as a Divemaster, as a software developer, as well as during my travels</i>
Indonesian	Basic	<i>Learnt by myself during my 7 months trip in Indonesia</i>
Chinese	Beginner	<i>I've started to learn Chinese by myself</i>

Interests

- Sports Scuba-diving (PADI Divemaster #312101, more than 250 dives), roller skating, volley ball, sailing, trekking.
- Music Drums & percussions player for more than 15 years.
- Computer Science Open source communities, Testing, Quality Assurance, Scalability, Functional languages, Game development.