

# Python Software Engineer

## **Brice Leroy**

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*I'm a python addict actually dedicated to web creation. I'm looking for challenges in software creation. I like to achieve tasks that first seem impossible to overcome. I'm particularly preoccupied by code elegance and Quality Insurance.*

## **Competences**

### **Python: Django, Zope/ERP5, PyQt**

- I spend the last 3 years developing on Django on social network and movie industry.
- My actual position include maintaining high availability with at least a million visit a day.
- I have been developing on ERP5 (on top of Zope) for 5 years on critical business data.

### **Servers: Unbuntu Linux, NGinx, IPTables, FastCGI, MySQL Server**

- Used to server setup, maintenance and migration (Mostly using Ubuntu).
- Security aware but not paranoid.
- Work remotely on server shell using secured connection (SSH + DSA Key).

### **Data: MySQL, Database Engine and SQL**

- Good knowledge of SQL (including joins, database alteration, permission mgnt).
- Aware of SQL crime (overuse of OR and IN, sub query).
- I'm UML minded and have a fast comprehension of data structure.

### **Web: HTML, CSS, Javascript**

- Develop mainly using valid XHTML 1.0 Strict
- Use Sass and already played with some CSS framework like BluePrint and 960
- Code ajax using JQuery.

## Experiences

### SOFTWARE ENGINEER, SODAHEAD; ENCINO, CA - 2010 - TODAY

Backend and front end developer. In charge of Mobile integration.

Applied knowledge at SodaHead:

Front End:

- HTML writing using Jinja2 Template framework
- Yahoo YUI 2 javascript
- Internal Javascript Framework
- CSS 2 and 3
- Cross browser code compatibility
- Mobile User interface

Back End:

- Python Django URL and Form Framework
- Database Caching using memcached
- Internal Database Query and ORM framework
- Geolocalisation through IP
- Asynchronous Task management

Server:

- Database: MySQL (Relational Database), Redis (Single threaded NoSQL Database)
- Twisted (event engine)
- Memcached (Caching Server)
- GeoIP (Geolocation through IP)
- Linux (Ubuntu from 8.04 to 11.10)
- Solr (Search engine)
- Active MQ (Messaging Queue Server)
- Webserver: Apache and Nginx

### SOFTWARE ENGINEER, FULHAM INC.; HAWTHORNE, CA — 2009-2010

Migrating an existing intranet solution from Zope to Django in order to provide new services including big file exchange, ticket, knowledge database, CMS, SSL access and faster response. This migration will save 80% of the actual server cost (\$5,000.00 / year)

In charge of the development of an online data warehouse providing product information using Django ORM. This data centralization increase data reliability and reduce the maintenance time by 5 (est. saving: 400h / year).

**Technologies:** Django, JQuery, XML REST API, HTTP1.0 auth, SSL Cert on Nginx.

**Organization:** GIT version Control, UnitTest, Web Documentation

### **SOFTWARE ENGINEER, EN2GO INC.; BURBANK, CA — 2009**

Project manager for an online multimedia library tool including media upload, encoding (from mobile format to 720P), data reporting, data quality control, user management and broadcast planning.

**Technologies:** Django, FFmpeg/h264, JSflot, Nginx, spawning

**Organization:** Mercurial, UnitTest, Wiki documentation

### **SOFTWARE ENGINEER, ESEEKER INC.; W-HOLLYWOOD, CA - 2008-2009**

Assistant project manager and developer on a social network website. In charge of the widget API, audio and video encoding, search engine and search spelling suggestion.

**Technologies:** Django, FFmpeg/h264, Nginx, Apache, Aspell, JQuery

**Organization:** Mercurial, UnitTest, Wiki documentation

### **ERP DEVELOPER, CWD SELLIER; FRANCE — 2004-2007**

Project manager for an ERP solution deployment for a custom made horse saddle manufacturer to unify process between French and USA corporation. The solution included stock management, sales, purchases, accounting and production.

**Technologies:** Zope/Python, ERP5, Apache, Mandriva Linux

**Organization:** Subversion, UnitTest, Wiki documentation, Deployment Plan

## Education

### Le Havre - France — Institut Universitaire de Technologie

- Degree: **D.U.T. Analyst Programmer**
- From 1999 to 2001
- 2 years degree in Software Programming
- Major in Automated Machine Programming
- University of Technology of Le Havre
- Field of studies:
  - Algorithmic
  - Relational Database
  - Analysis and Design of Information Systems
  - Calculus & Statistics
  - IT Mathematics & AI
  - English
  - Communication
  - Networks & System Architecture
  - Economy and Organization Management

### Le Havre - France — Ecole Technique des Industries Métallurgique

- Degree: **Baccalauréat**
- From 1997 - 1999
- Competed in the “Meilleurs Apprentis de France”, ranked 11th.
- Mention “Assez Bien” (“cum laude”)
- Major in Numerical Control Machinery

### Le Havre - France — Ecole Technique des Industries Métallurgique

- Degree: **Brevet d'Éducation Professionnel**
- From 1994 - 1996
- Mention “Bien”

### Gruchet Le Valasse - France — Collège Jean Monnet

- Degree: **Brevet des Collèges**
- From 1990 - 1994

## Personal Project

### DJANGOGENERATOR

*Django project code generator using web interface to conceptualize models and objects interaction.*

- **Technologies:** Django, FastCGI, JQuery
- **Organization:** GIT, UnitTest
- **Webpage:** <http://alpha.djangogenerator.com>
- **Sources:** <http://github.com/debrice/djangogenerator>

### KAALOO

*Time management and collaboration web software to manage project time and costs within a team.*

- **Technologies:** Django, FastCGI, JQuery
- **Organization:** GIT
- **Webpage:** <http://alpha.kaaloo.com/>
- **Sources:** <http://github.com/debrice/kaaloo>