



## Kevin Deldycke

### Data Engineer

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#### Skills

- Software Engineering, Open-Source
- Python
- Cassandra, PostgreSQL
- Web Services, Flask
- Cloud Computing, Distributed Systems
- Big Data, Apache Spark, Pandas
- Billing Systems, Tax Accounting
- Business Analysis

## Experience

### Data Engineer at Scaleway (Illiad group)

August 2013 – Current position

Designed, implemented and operated alone the whole telemetry and billing pipeline my company relies on to collect payments every month. All the revenue Scaleway is generating is established and consolidated by my pipeline.

Working daily with Python, Pandas, Cassandra, Airflow, Spark, Flask, PostgreSQL and the likes.

Scaleway.com is a Cloud Platform, serving on-demand bare-metal ARM instances, and all associated services (IP addresses, local and scalable storage, security groups, ...).

My integrated pipelines manage real-time consolidation and reconciliation of telemetry events, providing accurate and aggregated consumption of resources, both for live cost estimates and monthly billing. My systems also covers the definition of pricing matrix for product variants, payment workflows, early fraud-detection, per-territory taxes, discounts and coupons, generation of invoice PDFs, and all the European VAT and other legal idiosyncrasies.

### OpenERP Consultant at Smile (Consulting business unit)

May 2011 – July 2013 (2 years 3 months)

Contractor at Auchan eCommerce, Christian Louboutin, Solucom, V'Lille / Effia Transport (Keolis / SNCF group), INRA (French Ministries of Research and Agriculture), Proxiway (Veolia Transport group), ...

Business domains operated: purchase / sale and order / delivery cycles, sales management and customer / supplier relationship, subscriptions and contracts management, product catalog, price list, inventory management, scheduling and production planning, human resources, activity tracking, general and analytical accounting, invoicing, online payments, reporting and auditing.

- Relay between the publisher, community and customers (module contributions, bug reports, patches, ...).
- Instance migration and module backport between major versions.
- Automation of architectures installation and configuration. AWS-based prototyping.
- Writer of internal deployment procedures (Debian, Ubuntu, Suse, RHEL and CentOS).
- Advanced adaptation (via Mako / HTML / JS / CSS) of the monolithic web interface widgets, forms, themes.
- Created a web front-end for e-commerce integration (based on CherryPy, Mako and Formish OOO).
- Collection and analysis of customer needs. Writing of functional and technical specifications. Project management and progress monitoring. Support and assistance to users.
- Trained engineers from the Benelux subsidiary to OpenERP development.

## **Python Software Engineer – Contractor at EDF (IT department, Expert group)**

February 2008 – April 2011 (3 years 3 months)

Producer of Modulo, an intranet solution based on Plone. Most profitable content management system of the department (80+ websites).

- Defined milestones, roadmap and evolutions of the bundle.
- Designed and developed components (SSO, web design, import/export, migrations, ...).
- Built a ZEO cluster to get high performances (load balancing, Apache caching).
- Industrialized deployments and documented procedures (installation, upgrades, maintenance).
- Certified the security of the architecture for a port from the intranet to the internet zone.
- Maintained the internal forge (Trac, Subversion) and automated unit testing (Buildbot).
- Developed a light monitoring tool for sites.
- Trained and transferred knowledge to project managers and webmasters.

## **Open-Source Software Consultant at Devoteam (Uperto business unit)**

July 2007 – April 2011 (3 years 10 months)

- Designed and implemented with Ruby on Rails a RSS feed aggregator for sales prospectation.
- Shot and edited a presentation video of an Android application (French national railroad contest).

## **Auditor – Contractor at ED (Carrefour group)**

September 2007 – January 2008 (5 months)

- Mapped processes and data workflow of the whole information system (90+ servers).
- Identified system's weaknesses, then recommended actions to enhance system's cohesion.
- Optimized batch scheduling and reduce servers coupling.
- Developed the automation scripts, trained Operation Technicians to script development.

## **Software Engineer – Contractor at Air France**

July 2007

Improved (PyGTK & PyGame) a psychometric evaluation software (simulation used for pilot's recruitment).

## **R&D Engineer at Nexedi**

July 2005 – March 2007 (1 year 9 months)

- Maintained and responsible of several key components of the ERP5's ecosystem: web publishing, payroll, accounting module, OpenOffice integration, company's internal instance, Linux live-CD, RPMs, ...
- Represented Nexedi's industrial interests at international conferences.
- Assisted fiscal year closing: calculation rules and reports (general ledger, balance sheet, profit and loss, ...).
- Prototyped the accounting workflow for Sarbanes-Oxley integration.

## **Consultant – Contractor at African Union Commission (Addis Ababa, Ethiopia)**

July 2006 – February 2007 (8 months)

Built a knowledge management system (Nuxeo CPS + ERP5 combo):

- Analysed customer's requirements under the perspective of its institutional modernization;
- Constructed the multi-dimensional organization model (site, group, function, role, grade, ...);
- Developed, configured (workflows, access rights, ...) and deployed the solution.

## **CEO at Nexedi Afrique (Dakar, Senegal)**

July 2005 – December 2005 (6 months)

- Created the African subsidiary, managed the operations (bookkeeping, project management, training, ...).
- Installed company's products (Desktop Linux Server, ERP5) in several local SMEs.

## **Consultant & Trainer – Contractor at ADIE (Senegalese State IT Agency, Dakar, Senegal)**

July 2005 – December 2005 (6 months)

- Supported the creation of budget management and customization of payroll modules to local laws.
- Trained agency's software engineers to develop modules in ERP5 framework.

## **Consultant & Web Designer – Contractor at CRRAE-UMOA (Dakar, Senegal)**

July 2005 – December 2005 (6 months)

Supported the implementation of a centralized hospital management system, supervised the test sessions and presented the final system. Designed and implemented the brochure website.

## **Project Manager & Technical Leader – Contractor at BCEAO (Dakar, Senegal)**

January 2005 – December 2005 (1 year)

- Implemented a pilot application for bank agencies management (banknote recycling and sorting, funds management, accounting), and XML-based data migration.
- Compiled daily and weekly status reports, transferred skills to the engineering staff.

## **Software Engineer – Intern at Nexedi**

September 2003 – June 2005 (1 year 10 months)

- Designed and implemented ERP5's generic payroll module.
- E-commerce: data migration, sale order synchronization, press release translation.
- Wrote an article about on ERP5 architecture and development, cited in academic papers.

## **Software Developer – Contractor at FFII**

August 2004

Creation of a Zope-based european lobbying website to revise the law on software patents.

## **Software Developer – Intern at Compiforce (Rushden, United Kingdom)**

January 2003 – March 2003 (3 months)

Implemented a database management tool in C for a debt collection software.

## **Industrial PLC Technician – Intern & Temp in Automotive and Food-processing industry**

June 2001 – August 2002 (6 months)

Deployment of a SCADA system: audited PLC network, estimated costs and proposed solutions.  
Preventative maintenance: built an electrical installation and repaired programmable logic controllers.  
Upgraded operating manuals to comply with ISO 9001:2000 quality certification.

## **Languages**

- French (Native proficiency).
- English (Full professional proficiency). TOEIC score: 770 points (2003).

## **Education**

- 2002 – 2005 : **École Centrale de Lille**. Master's degree (has the dual value of a Engineer's Degree), specialties: Software and Industrial Engineering.
- 2001 – 2002 : **UVHC**. Undergraduate university degree, in Electrical and Industrial Engineering. Equivalent to HND (Higher National Diploma) / AS (Associate's degree) in Electrical Engineering. Graduated with honors.
- 1998 – 2000 : **Lycée Arthur Rimbaud**. Baccalauréat série Scientifique. This diploma is equivalent to an A level with a scientific focus. Graduated with distinction.

## **Conferences**

- **OpenERP Partner Days**, 2012, Belgium.
- **EMPOSME** (Enterprise Modelling and Performance Optimisation for SMEs), 2006, Ireland.
- **COFENIS** (Conference on Research and Practical Issues of Enterprise Information Systems), 2006, Austria.
- **Solution Linux**, 2006, France.

## **Honors and Awards**

- Author of the "best Open-Source Payroll system", as recognized by Smile in 2008.
- Silver rank Open-Source contributor by Ohloh, which place me in the top 1% of the population.
- Finalist of the French national programming challenge (Prologin 2002): 36 hours of non-stop coding.

## **Interests**

- Scuba diving (PADI Open Water Diver).

- Digital cinematography.
- Stage lighting designer and sale manager of a rock band's back-catalog.