



# OLIVIER CORTÈS

## Senior web / network engineer

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## PROFILE

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- Technical & operational problem solver. Strong communication and leadership skills.
- Full software lifecycle management: design, UX/UI, development, optimization, delivery, support.
- Eleven years experience in professional software development; seven in Python, four with Django.
- Four years implication in low-power / high-efficiency hardware design (machines & networks).
- Well versed in cloud/web applications, asynchronous programming and IT architecture.
- Two years experience as managing a small distributed team; five in managing local small teams.
- Open Source® specialist and teacher: Linux since 1998, Debian since 2.2, Ubuntu since Warty.

## PROFESSIONAL EXPERIENCE

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12-2012 to present     **Freelance Web / Network engineer & consultant**

### MAJOR SKILLS

<http://1flow.io/>

- Software architecture design, with strong hardware/network knowledge,
- Agile software and project management, test-driven development,
- Python/Django/jQuery web applications development,
- Elegant UX/UI design, user workflows smoothing,
- Small & medium network architecture design & consulting,
- Software performance analysis and optimisation,
- Early-stage startup technical structuration and transition management.

<https://github.com/Kar-mak23/sparks>

### Development status:

- **1flow**: pre-beta, active development.
- **Sparks**: in production for 1 year, active development.
- **Licorn®**: in production for 8 years, dev. stopped.
- **MyLicorn®**: alpha, private use, sporadic dev.

### STARTUP / PROJECTS

- <http://1flow.io/> : co-founder of project, lead developer, architecture designer, database designer, UX designer, system administrator (1+ year).
- **blookup.com**: technical reinforcement on web development (3 months).
- Helped bootstrap <http://beau-dimanche.com/> in the early phase and developed other projects for WSB-Agency (1 month).

### Technologies:

Python, Django, jQuery, HTML/CSS, REST, MongoDB, redis, PostgreSQL, memcache, LXC, Git & GitHub, JSON-RPC, Trac, nginx, Linux Sysadmin, virtual machines.

### PERSONAL PROJECTS

- **Sparks**: Fabric-based management tool for web applications and cloud architectures.
- **MyLicorn®**: Django-based monitoring and management web application.
- contributions to open-source projects (**MongoEngine** database high-level driver, **celery** tasks manager, various Django libraries and plugins).

11-2007 to 11-2012 **META IT** — H.Q. in Bidart, France [home-based since June 2010]

5 years

with a 6 months interlude  
@ McKesson

**Technologies:**

Python, Pyro, Django, Jinja2, jQuery/HTML/CSS, py.test/unittest2, Trac, Git (previously Darcs / BZR), PostgreSQL, twisted, GlusterFS.

Low-power Intel/VIA-based motherboards, LCD/SSD manufacturers.

D-bus, Ubuntu LTS, APT / dpkg, GPG, OpenLDAP, NFS, dnsmasq, Samba, caldavd, OpenSSH, Squid, Postfix, Dovecot.

**Research & Development Software Engineer**

- Lead developer of external project Licorn®, sponsored by the company and funded via a non-governmental research contract with A.D.E.M.E (equivalent of E.P.A in the U.S). Main goals were small-resources-footprint and energy efficiency (<30W for clients and server machines).

- Software architect, main developer and leader of a small distributed team. Network cluster designer. Infrastructure manager, IT architect. QA manager.

- Part-time in the hardware design team. Sourcing, prototype design & stress-testing in real-life conditions, software/driver tuning for specific hardware.

9 months while  
@META IT

Proprietary license. Source code not available.

**Technologies:**

Python, Django, OpenERP, jQuery, Jinja2, PostgreSQL, XML-RPC, Memcached, suds, Trac + Darcs, Ubuntu LTS.

**Conceptor / developer of “CPRO DIRECT”**, a B2B Django-based webstore engine and generator, live-connected to OpenERP via a custom XML-RPC API. Automations driven by highly-parallel batcher, implementing all suppliers I/O flows via plugins (SOAP / SMTP / XML-RPC / XML+FTP), and driving the ERP workflows via RPC.

- design, architecture, development, UX/UI design, delivery and support. Cloud/IT Architect, infrastructure manager.

- PostgreSQL management; SQL query optimisation. Deep memcache integration for fast scaling. XML-RPC API design/impl. for easy ERP integration.

12-2009 to 05-2010 **McKesson** — Pessac, France [France Division of McKesson Worldwide]

6 months

**Technologies:**

Redhat Linux, HPUNIX, AIX, Oracle 10g and 11g.

**Unix System Engineer / Oracle DBA.**

Deployment of Oracle RACs (cluster) in hospitals IT. Live System and Database migrations (test and production environments) for 3-tier proprietary software. IT Architect / Consultant for hospitals (1000+ computers and large network architectures).

2004-2011

3 to 6 courses  
per year

**CNFPT Aquitaine and CNFPT Ile de la Réunion**, France (« Centre National de la Fonction Publique Territoriale »)

**Freelance teacher, contracting for governmental Institutions.**

Teaching adults, users or developers ; working with Open Source technologies.

**Subjects:** *Linux System installation and Management [basic and advanced, Ubuntu and Debian based], Apache and web security, Python programming, PHP/MySQL programming, Databases and SQL [basic and advanced], Creating a website with OSS [wordpress+themes+gimp+inkscape], Postfix management, Samba / NT domains management.*

03-2002 to 08-2007 **RYXEO S.à.R.L** — Villenave d'Ornon, France

6 years

**CTO, Lead developer on all software projects, Company Associate.**

**Technologies:**

*Python, LTSP, nbd, PHP/MySQL, HTML/CSS/JS, Apache, Squid, Postfix, BIND/DHCPd, courier-imap, Samba, Trac, darcs & arch (previously CVS), C/C++, Shell & Perl scripting.*

- Software development, UI/UX design, packaging and QA. Lead developer & debian maintainer of a home-grown Debian/Ubuntu derivative named "AbulEdu" (a french Edubuntu-like thin-client based solution).
- IT Architect / Consultant for small to medium customers (100-500 computers); network performance tuning, database / queries optimizations.
- low-level (hardware/drivers) support and manager of user-level support small team. Full customer relationship management as associate.

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2000-2002

**ALIZE-SFL** — Paris, France [groupe FNAC / PPR]

1,75 year

**Database Administrator, then CTO.**

**Technologies:** *FreeBSD, OpenBSD, Linux (RedHat & Debian), Samba, Windows NT, Sendmail, Postfix, Apache, PHP, httdig, HTML, PostgreSQL, Informix, Shell and Perl scripting.*

- Created the complete system / network architecture of the company; Full-time system and network administrator on Linux/BSD/Solaris servers.
- Developed an ecommerce B2B website, with full-text search engine and cached-pages generator on 1.2 million products.

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## EDUCATION

2000-2002

**C.N.A.M. Paris, France (Conservatoire National des Arts and Métiers)**

Evening-classes studies for Diploma of Multimedia System & Network Engineer

1998-2000

**Technological University Institute «A», University of Bordeaux 1, France**

Technological University Diploma in Computer Science (BSc equivalent)

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## PROGRAMMING LANGUAGES AND TECHNOLOGIES

### Proficient

- Python, Django, Javascript/ jQuery, XML, Jinja2, Asynchronous frameworks (self-designed, gevent, twisted), RPC mechanisms (REST, JSON-RPC, Pyro, XML-RPC, SOAP), OpenERP ; good knowledge of many system/network-related python libraries.
- SQL & NoSQL, DB and query optimization (MongoDB, PostgreSQL, SQLite, MySQL, Oracle 10g).
- System administration: Ubuntu Server & Debian, LXC containers, APT/dpkg, Dovecot, Postfix / nullmailer, nginx, Apache and twisted / gevent webservers, Samba, dnsmasq, duply (duplicity) / rdiff-backup, posix1e ACLs, NFSv3.

### Working Knowledge

- Cloud-related and virtualization: VMWare, Dropbox, Ubuntu One, iCloud, Amazon EC2/S3.
- EmberJS, PHP, C++, Shell and Perl scripting, XMPP and its extensions, C, Vala.
- Network architecture & administration (Various brand of L2/L3 switches, Cisco/BSD routers, firewalls), NFSv4, AFP (netatalk). Distributed filesystems (GlusterFS, XtremFS).
- Computer design & prototyping, basic circuitry design ; sourcing, testing. Industrial constraints
- Self-taught system administrator on Windows XP/7 Pro and OSX 10.6-10.9. Debian packaging.

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## LANGUAGES

**French:** native

**English:** fluent

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## HOBBIES AND OTHER

Kiteboarding, family trekking. Technical readings to stay informed. Photographer.



@Karmak23

There are more than 16777216... Oh my, **millions** of colors in life!  
However, the Twitter logo is **blue**, and so are the logos of Skype, Facebook,  
LinkedIn, IBM, Microsoft, and a ton of other companies.

This is not by accident.

Blue means « stable & secure » in the occidental design codes.  
Every actor wants you to feel at home in their web application, but we know  
that under the hood, it takes far more than a logo to really feel **that** good.

Be sure that working with you, I'll find more *creative* and  
**reliable** solutions than this truckload of flooding blues.

à bientôt !  
Olivier

Latest version of this resume, and more : <http://oliviercortes.com/>

This version: December 1st, 2013