

## Experience

### Senior Software Engineer SpotMe

2014-Present  
Lausanne, Switzerland

Responsible for SpotMe's **server infrastructure** and **backend**, which serves **tens of thousands of users per month** in hundreds of high-profile business events.

- Evolved the **backend architecture** to remove single points of failure, allow **clustering**, provide **high availability** and off-load heavy tasks to a **Redis**-based **task queue**, which eliminated the causes of most of the system's downtime and slowness.
- Developed a **database redundancy daemon** to provide **fault tolerance** on top of our custom **CouchDB** servers.
- Developed several **NodeJS APIs** to easily maintain, replicate and archive SpotMe's event databases.
- **Automated** the **build and deployment**, using **Ansible**, **Docker** and **Jenkins**, which reduced the build and deployment time by 70% and allows for **Continuous Deployment**.
- Developed **monitoring tools** to track and respond to anomalies in SpotMe's database, backend software or infrastructure, using **Go**, **Python**, **Datadog** and **Logentries**.

### Software Architect Senior Software Engineer Paylogic

2011-2014  
2009-2011  
Groningen, Netherlands

- **Designed** and **led** the development of Paylogic's **distributed, decentralized, fault-tolerant virtual queue system**, which has been used successfully for several years queuing **hundreds of thousands of users simultaneously**.
- **Designed** and **led** the development of the Paylogic Ticketing API, a discoverable, self-documenting **REST API**.
- **Developed** the **team's competence** in **Software Architecture** through **talks, mentoring** and **collaboration**.
- Introduced **Agile**, **Scrum** and development best practices.
- Collaborated on the development of Paylogic's Django ticketing application.

### Co-Founder Helpdesk

2008-2009  
Barcelona, Catalonia

Began a startup to provide efficient issue management for small businesses.

- Built a **Django payment processing** library to process payments on **Wirecard** and **Paypal**.
- Built an **e-mail indexing** system using **Django** and **Solr**.
- Built a **HTTPS broadcast server** for sales monitoring, using **Twisted**.

## Skills

### Programming

Go  
Python  
NodeJS  
PHP  
Perl

### Databases

CouchDB  
MySQL  
PostgreSQL  
DynamoDB  
Redis  
ElasticSearch  
RethinkDB

### Infrastructure

Ansible  
Docker  
AWS

### Libraries

AngularJS  
ExpressJS  
Django  
SQLAlchemy  
py.test  
Jasmine  
Docker

### Engineering

Software Architecture  
Agile  
Scrum  
REST  
Continuous Integration  
Domain-Driven Design

## Education

BS Computer Science  
UOC, 2007

## Senior Software Engineer Local Billing, Ltd.

2007-2009  
Barcelona, Catalonia

Responsible for LocalBilling's **PHP payment gateway** integrated with several banks and payment providers and capable of handling thousands of simultaneous payments.

- Developed LocalBilling's subscription manager and **fraud control** software.
- Developed a credit card **encryption daemon** to store credit card numbers securely in accordance with the requirements of the **PCI** certification.

## Software Engineer Desertic

2006-2007  
Vilanova i la Geltrú, Catalonia

- Developed and maintained a J2EE web application for business management using Tomcat and Oracle.
- Maintained a J2EE application for the detection and prevention of money laundry.

## Software Engineer Netfocus

2002-2006  
Barcelona, Catalonia

- Designed and developed a responsive web application for the management of the firm's customer data using J2EE/JBoss.
- Worked on building Linkat, a SuSE-based GNU/Linux distribution, by customizing and packaging open source applications, using RPM.
- Designed an invoice reconciliation system.
- Built a Java library to interface with Lotus Notes over HTTP.
- Managed a SeeBurger EDI station.
- Built various ad-hoc Perl tools for data analysis and report generation.

## Talks

- RethinkDb 2015
- CoreOS and Kubernetes
- Lean: 2014  
Validated learning
- Python at scale
- Architecture:  
Risk-Based Design
- Continuous 2013  
Deployment
- Handling massive traffic  
with Python
- Agile User Stories
- Celery 2012
- Agile Estimation
- Tornado in Depth
- Scrum: 2011  
Getting Started
- ZeroMQ

## Languages

English	FLUENT
Catalan	NATIVE
Spanish	NATIVE
Dutch	PROFICIENT
Italian	LIMITED
French	ELEMENTARY