

Cristóbal Carnero Liñán

# Cristóbal Carnero Liñán – Resume

*“Creativity is intelligence having fun.”* – Albert Einstein

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* **Date of birth:** 12th February, 1981

# Summary

More than 10 years of professional experience in the software industry and university research groups. Expertise in develop, deploy and manage server-side software and web services.

# Education

* 2009 – 2011 **Master in Software Engineer and Artificial Intelligence**, Universidad de Málaga.
* 2002 – 2007 **Computer and Software Engineering**, Universidad de Málaga.
* 5-year university degree. Bachelor Thesis approved with Special Distinction.

# Experience

* Since Nov 2018 **Cathedral Software**, *Senior Data Engineer*.
  + Cloud architecture solutions design & implementation.
  + Backend services development & deployment.
  + Technologies: AWS, Azure, Terraform, Kubernetes, Helm, Django REST Framework, Pandas, Jupyter,…
* Feb 2018 - Nov 2018 **Virtually Live**, *Senior Server Engineer*.
  + Cloud architecture and CI/CD design and implementation.
  + Kubernetes deployment and management in AWS.
  + Real-time data pipeline: ingestion, processing, publishing,…
  + Computer Vision using Deep Learning.
  + Technologies: Python, Kubernetes, AWS, Jenkins, Ansible, Terraform, Kafka, Heron, Keras, Pandas, Jupyter,…
* 2017-2018 **Cathedral Software**, *Senior Software Engineer*.
  + Big Data & Business Intelligence.
  + Technologies: Python, Django, Django REST framework, AWS, Docker, Airflow, Redshift, PostgreSQL, Angular 2, Selenium,…
* 2015 - 2017 **VATIA Energía**, *Software Engineering Manager*.
  + Web platform for automatic *Virtual Energetic Audit*, *Energetic Benchmarking*, monitoring,…
  + Fullstack development, DevOps & data analysis.
  + Technologies: Node.js, Python, Celery, Django, Pandas, Matplotlib, MongoDB, Ansible, Fabric.
* 2014 – 2015 **Axafone**, *Consultant*.
  + Web technology consultancy.
  + Customized web crawlers (Scrapy).
  + Speaker.
* 2011 – 2013 **Melomics Media**, *Backend Developer, DevOps*.
  + Server side development and deployment of a massive online music repository, with search, streaming, purchases and public API.
  + Administration of cluster of Debian servers.
  + Development and deployment of automatic video edition software with additional post-processing capabilities as chroma key, effects, titles, subtitles, publishing,…
  + Technologies: Python, web.py, MongoDB, ElasticSearch, Memcached. APIs: Paypal, Google Wallet, Facebook, Google+.
* 2009 – 2011 **Universidad de Málaga**, *Researcher*.
  + Computer vision research in the department of *“Computational Intelligence and Image Analysis”*, managed by José Muñoz Perez and Enrique Dominguez Merino.
  + Technologies: Python, C++, OpenCV, cvBlob, Matlab, Octave.
* 2007 – 2009 **Tedial S.L.**, *Backend Developer, System Administrator*.
  + Server-side media storage technologies.
  + Authentication, authorization, and access control.
  + Management of surveillance cameras.
  + Deployment of software and administration of several SuSE Enterprise Server installations.
  + Technologies: C++, Python, SuSE Enterprise Server, Oracle, LDAP, SOAP.
* 2005 – 2006 **Novasoft**, *Software and Web Developer*.
  + Educational video games.
  + Technologies: Flash, ActionScript, HTML, Javascript.

# Master Thesis

**Title:**

*“Shape recognition through new convexity descriptors”*

**Supervisors:**

José Muñoz Perez, Enrique Dominguez Merino

**Description:**

For this project several new convexity descriptors were devised. Then they were tested in the recognition of the *American Sign Language* used by deaf people.

# Bachelor Thesis

**Title:**

*“A Video Surveillance System for Fall Detection”*

**Supervisors:**

José Muñoz Perez

**Description:**

Development of a video surveillance software to automatically detect the fall of persons.

# Personal Projects

* Since 2016 **Mukabe**, <https://mukabe.com>.
  + *Mukabe* is the new way of navigate through information, the new social and online organization, and the new way to get visibility for you, your projects or your company.
  + Technologies: Python, Django, Celery, Redis, ElasticSearch, Ansible, Fabric, AWS, Social APIs (Instagram, Facebook, Google+,…).
* Since 2015 **RegaloInteligente**, <http://regalointeligente.com>.
  + Search engine of gifts with parameters like gender and age, and filter for prices.
  + Web and Android applications (available in Google Play). Twitter bot with auto posting and automatic reply. Telegram bot.
  + Technologies: Python, Pyramid, MongoDB, ElasticSearch, Amazon API, Twitter API, Telegram Bot API.
* 2013 – 2014 **CursosDeSEO**, <http://cursosdeseo.net>.
  + Search engine of courses from different platforms and formats.
  + Technologies: Python, Pyramid, MongoDB, ElasticSearch, Scrapy.

# Free Software Projects

* Since 2014 **WooDPD**, <http://woodpdplugin.com>.
* WordPress Plugin to integrate DPD purchases in WooCommerce.
* Since 2013 **OrigamiPress**, <http://origamipress.com>.
* Blog tool, publishing platform, and CMS developed in Python. Yet to be published.
* Since 2009 **cvBlob**, <http://cvblob.googlecode.com>.
* Blob library for OpenCV, widely used in computer vision and robotic research.

# Languages

* **Spanish** Native
* **English** Fluent

# Qualities

## Computer skills

**Languages:**

Python, Bash, JavaScript, HTML5, CSS3, SQL. **Databases:**

PostgreSQL, MongoDB, ElasticSearch, Redis, Memcached, Redshift. **Web servers:**

Nginx, Apache. **Environments:**

Vim, Make, Android Studio, Eclipse. Git, Mercurial, Subversion. **Frameworks:**

Django, Django REST framework, Celery, Cornice, Scrapy, Airflow, Pyramid, Bootstrap, Mako, WordPress, OpenCV, OpenGL. **Testing:**

TDD, unittest, Selenium. **Infrastructure:**

Kubernetes, AWS, Azure, DigitalOcean. **Deployment:**

Docker, Helm, Jenkins, Ansible, Terraform, Fabric, VirtualEnv, Supervisor, Upstart, Vagrant. **Data Science:**

Pandas, Keras, Jupyter. **Technologies:**

RESTful Web Services, Ajax. **APIs:**

PayPal, Google Wallet, Amazon, Facebook, Twitter, Instagram, Braintree, Telegram. **Platforms:**

GNU/Linux (Ubuntu, Debian, SuSE Enterprise Server, CentOS), Android. **Others:**

LaTeX.

## Personal skills

### Engineering:

* Ability to find creative solutions.
* Strong analytical, able to anticipate issues, resolve concerns and improve efficiency.
* Good software engineering skills.
* Care of coding standards.
* Eager to learn and develop new skills.

### Others:

* Ability to work without direct supervision.
* Skilled in building excellent rapport with team members and clients.
* Great verbal and written communication skills (wide experience in both Spanish and English).
* Professional experience in public speaking.

# Interests

GNU/Linux, web servers, web spiders, image processing, computer vision, computer graphics, artificial intelligence, compilers development, security.