

# Cristóbal Carnero Liñán

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

## 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.

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## 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.

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## 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.

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## 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.

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## 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.

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## Languages

Spanish Native  
English Fluent

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## 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, Scrappy, 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 Pandas, Keras, Jupyter.  
Science:  
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.