

Cristóbal Carnero Liñán

+34 655 52 79 11
ccarnerolinan@gmail.com
http://cristóbal.com
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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 2017 **Cathedral Software**, *Senior Software Engineering*.

- Big Data & Business Intelligence.
- Technologies: Python, AWS, Airflow, Redshift, PostgreSQL, Angular 2,...

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, C, C++, Java, SQL, PHP, ASP, Delphi, Octave, Matlab, ActionScript, Assembly (Intel x86, AT&T).

Databases: MongoDB, ElasticSearch, Redis, Memcached, PostgreSQL, Redshift, Oracle, MySQL.

Web servers: Apache, Nginx.

Environments: Vim, GDB, Make, CMake, Android Studio, Eclipse, KDevelop, Visual Studio. Mercurial, Git, Subversion, CVS.

Frameworks: Django, Celery, Cornice, Scrapy, Airflow, Pyramid, Bootstrap, Mako, Node.js, Express.js, Angular 2, WordPress, OpenCV, OpenGL, OAuth.

Deployment: Ansible, Fabric, VirtualEnv, Supervisor, Upstart, Docker, Dokku, Vagrant, AWS API.

 Data Pandas, NumPy, SciPy, Matplotlib, MapReduce.

 Analysis:

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. AWS, DigitalOcean.

 Others: LaTeX, Doxygen, LibreOffice, Inkscape, Gimp, Krita, Photoshop, Flash.

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.