Cristóbal Carnero Liñán

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Summary

AWS Solutions Architect certified with more than 10 years of professional experience designing, building and deploying server-side solutions in the cloud, for different industries like management consulting, energy and utilities, video games, and university research groups. Expertise in Backend Development, Data Engineering and DevOps.

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.

Certifications

✸ **AWS Certified Solutions Architect − Associate**, *Amazon Web Services*.

Experience

Since Nov 2018 — **Cathedral Software**, *Senior Data Engineer & DevOps*.
– Develop solutions for international client, one of the biggest management consulting firm.
– Backend services for web applications using Django REST Framework for API, Celery for background tasks, and Django Channels for notitifications.
– Work with Data Science team in order to design and implement cloud architecture solutions in both AWS & Azure, using Terraform.
– Implement continuos integration with different stacks: CircleCI, Azure DevOps, Docker, Helm, Kubernetes.

Feb 2018 - Nov 2018 — **Virtually Live**, *Senior Server Engineer & DevOps*.
– Independently responsible for designing full real-time data pipeline architecture from the ingestion of telemetry from live events (*Formula E*), processing, and serve the output stream data to mobile games at scale.
– Implement the key parts of the architecture in Python using technologies like ZeroMQ, Kafka and Tornado.
– Work closely with Data Science team to provide a stream processing framework using Apache Heron for their needs.
– Deployment of a Kubernetes cluster in AWS using Ansible, including hosted applications using Helm, and continuos integration with Jenkins.
– Contributions to open source project Apache Heron in order to fix deployment to Kubernetes and complete its documentation.
– Work with R&D department designing and developing a prototype for a real time computer vision app using deep learning with Keras.

2017-2018	**Cathedral Software**, *Senior Software Engineer*.
	– Work on the data pipeline of the business intelligence platform of one of the largest travel web companies.
	– Develop ETL in Airflow to calculate KPIs and provide reporting capabilities for internal tools of the client company.
	– Responsible to design and develop backend solution to provide real time chat and other features to mobile app using Tornado.
2015 - 2017	**VATIA Energía**, *Software Engineering Manager*.
	– Responsible to design and develop a web platform for automatic *Virtual Energetic Audit* and *Energetic Benchmarking*.
	– Develop key parts of the system: Node.js APIs, background tasks using Celery for monitoring, and data analysis/reporting with Pandas and Matplotlib.
	– Responsible for recruiting technical staff: write job descriptions, qualify resumes, interview candidates and provide assessments.
2011 – 2013	**Melomics Media**, *Backend Developer & System Administrator*.
	– Server side development and deployment of a massive online repository of computer generated music, with search, streaming, purchases and public API.
	– Administration of a cluster of Debian servers.
	– Development of automatic video edition software with additional post-processing capabilities as chroma key, filters, 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**, *Backend Developer & System Administrator*.
	– Server-side media storage technologies.
	– Development of an interpreter for a custom programming language designed for testing DB operations.
	– Authentication, authorization, and access control with LDAP.
	– Management software for surveillance cameras.
	– Deployment of software and administration of several SuSE Enterprise Server client installations.
	– Technologies: C++, Python, Oracle, SOAP.
2005 – 2006	**Novasoft**, *Software & Web Developer*.
	– Educational video games in Flash.
	– Started in a one month scholarship, but then the company hired for a longer project.
	– Technologies: Flash, ActionScript, HTML, Javascript.

Personal projects

Since 2020	**EnRemo.to**, *https://enremo.to*.
	– Directory of tools for remote working built in less than 24h during COVID-19 as a No-Code project.
	– Job offers for remote positions in companies based in Spain.
	– Blog about remote working.
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+), HTML5, CSS3, Bootstrap, JavaScript, JQuery.

Since 2015 **RegaloInteligente**, *http://regalointeligente.com.*
– Search engine of gifts with parameters like gender and age, and filter for prices.
– Web and Android applications. Twitter bot with auto posting and automatic reply. Telegram bot.
– Technologies: Python, Pyramid, MongoDB, ElasticSearch, Amazon Product Advertising API, Twitter API, Telegram Bot API, HTML5, CSS3, Bootstrap, JavaScript, JQuery.

Free Software Projects

2014 – 2015 **Datacker**, *https://github.com/cristobalcl/datacker.*
Convert your notebooks to runnable Docker images. The quickest way to bring Data Scientists work to production.

2009 – 2012 **cvBlob**, *https://github.com/cristobalcl/cvblob.*
Blob library for OpenCV, widely used in computer vision and robotic research.

Languages

Spanish Native
English Fluent

Qualities

Computer skills

Languages: Python, Bash script, Elixir (*learning*).

Software Engineering: TDD (Test-Driven Development), Clean Architecture, Scrum, Git-flow, Trunk-Based Development.

Databases: PostgreSQL, MongoDB, ElasticSearch, Redis.

Frameworks: Django, Django REST framework, Celery, Airflow.

Infrastructure: Kubernetes, AWS, Azure, DigitalOcean.

Deployment: Docker, Helm, Jenkins, Terraform, Ansible, Supervisor, Nginx.

Data Science: Pandas, Keras, Jupyter.

Environments: Git, Make, Vim/NeoVim, tmux, Bash, Fish.

Personal skills

Engineering – Ability to find creative solutions.
– Strong analytical, able to anticipate issues, resolve concerns and improve efficiency.
– Care of coding standards and best practices.
– Eager to learn and develop new skills.

Others – Ability to work without direct supervision.
– Great written communication skills (wide experience in both Spanish and English).

Interests

DDD (Domain-Driven Design), software architecture, GNU/Linux, free software, image processing, computer vision, computer graphics, artificial intelligence.