

# Alejandro Garrido | Curriculum Vitae

London – United Kingdom

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## Personal information

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**Date of birth:** 22-08-1989, Caracas - Venezuela **Nationality:** Venezuelan and Spanish

## Formal education

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**Simón Bolívar University**

*University*

Electrical Engineering (Power Systems)

**Caracas, Venezuela**

*2007–2014*

## Work Experience

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**Sky**

*DevOps Engineer, London, United Kingdom*

**www.sky.com**

*Apr 2016 – Present*

I am part of the Recommendation team which serves content recommendations to many public facing products including NOW TV, Sky GO, and Sky.com. They are also served to millions of customers through Sky Q. I am responsible of the implementation of DevOps and resilience engineer practices.

Our infrastructure platform is made of more than 5000+ servers across three datacenters and serves a user base of 22M+ users. We have multi-tenancy approach because we operate in UK, Ireland, Germany, Italy and Austria.

Our platform is microservices oriented, Immutable Architecture principle and containers (docker) is what we use for our infrastructure lifecycle. Most of the applications containers are orchestrated with Rancher, kubernetes and Docker Swarm.

Some of the main projects I've been directly working:

- Infrastructure bootstrapping with terraform, for a hybrid cloud and on-premise infrastructure
- Service Discovery: Consul and etcd.
- We focus in automation building APIs instead of scripts, we mainly use Golang for our automation projects.
- Continuous Integration: most of the systems implemented with Jenkins and Concourse CI (for the new ones). My work in CI has focussed in defining policies and methodologies for CI as a code implementations.
- CDN with Akamai
- Container orchestration: Rancher, Kubernetes, Nomad and Docker Swarm.
- Microservices monitoring: Implementation done with Prometheus using etcd/consul backend for service discovery, alertmanager to alerting and grafana for dashing.

**Debian***Official Debian Developer***www.debian.org***2006–Present*

Debian Project Member with vote rights and upload privileges. I've been involved in Debian for 9 years, starting as package maintainer and participated in groups like Debian-Perl.

Currently I work packing and maintaining several packages for project, a detailed list of packages are in: <http://qa.debian.org/developer.php?login=alejandro>

**Forest-Technologies***DevOps & Continuous Delivery Consultant, London***www.forest-technologies.co.uk***May 2015 – Apr 2016*

DevOps Consultant for Europe and Asian. Working in consulting area with the following DevOps principles and tools:

- Continuous Integration: Jenkins, Gitlab
  - Continuous Delivery: Automic, GoCD, Jenkins
  - Application Orchestration: Automic (Application Release Automation, ARA), Puppet Application Orchestration
  - ChatOps: Implemented and maintained a lot of services with Hubot
  - Monitoring: Nagios, Icinga2, Sensu
  - Application Performance Monitoring (APM) with AppDynamics: Consultant of multiples companies using AppDynamics.
  - IaS: Puppet Certified and Professional Services Engineer, Ansible
  - Microservices and Containerization: Kubernetes, Docker, AWS
- Most all of the work done under DevOps philosophies and principles.

**CORPOELEC (State-run electricity company)***Electrical Engineer***Caracas***2014–2015*

Load Allocation: Developed and maintained computational system for load allocation in order to build distribution transformers load curves using load research study. This helps operators of electric system to make load transfers between feeders and detect power thefts. Also is useful for planning studies and accurate prediction of load demands. Tools used:

- Pentaho (business intelligence for DataMining)
- R programming language (for regressions and statistical analysis)
- PostgreSQL 9.2 (and PL/SQL)
- Web app developmet with PHP5+jQuery

**Ministry of Electric Power***Web Developer***Caracas***2012–2014*

- Design, develop and support Web applications using Perl (Catalyst framework).
- Install and maintain a document management system (DMS) with OpenKM.
- Design and maintain an external and internal webpage with WebGUI.

**Ministry of Electric Power***DevOps and System Administrator***Caracas***2010–2012*

Development and implementation of puppet classes for the configuration management system. Implement and maintain FLOSS technologies like network services DHCP/DNS (bind), OpenLDAP, dovecot + postfix, backups (bacula), printserver (Cups), shared folders (NFS and Samba), webservers (Nginx and apache), monitoring systems (nagios and munin). All services virtualized with Xen and OpenVZ.

**Simón Bolívar University**

*Teaching assistant*

**Caracas**

2009–2010

"Computación I" is course name. C programming language course for electric and electronic engineers

**FUNDELEC (Foundation for the Development of Electricity Service)**

*Network and Systems Administrator*

**Caracas**

2008–2009

Administrator of (about 300 people). I administered network core and switches (huawei and cisco, respectively). Performed the migration to FLOSS technologies services like Active Directory (to OpenLDAP), set up new proxy server with SQUID+dansguardian and new email service with dovecot+postfix+squirrelmail

**CVG-EDELCA**

*Web Analyst*

**Caracas**

2006–2007

Instructor Course "Use and Development of Content Management System"  
Charge migration of intranet website to Drupal (CMS)

**Courses and seminars**

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*Loscher Language Institute*

2004

**Instituto Superior de Estudios e Investigaciones Tecnológicas**

*PHP and Python development*

**ISEIT**

2005

**Instituto Superior de Estudios e Investigaciones Tecnológicas**

*Certified Linux System Administrator*

**ISEIT**

2006

**Certification:** "Administrador Profesional Certificado Linux"

**Instituto Superior de Estudios e Investigaciones Tecnológicas**

*Networks Specialization using GNU/Linux*

**ISEIT**

2006

**CTT Corporation**

*CCNA 1 and CCNA 2*

**CTT**

2011

**Matrix CPM Solutions**

*Business intelligence with Pentaho*

2012

**Matrix CPM Solutions**

*Advanced Business intelligence with Pentaho*

2012

**Dictado por el chef Karim Kerbaje**

*Sushi course*

**8 hours**

2012

**Johns Hopkins University**

*Computing for Data Analysis, A data analysis course with R language*

**With distinction (99/100)**

2012

<b>Johns Hopkins University</b>	<b>(83.3/100)</b>
<i>Data Analysis, Advanced course of data analysis</i>	2013
<b>Georgia Institute of Technology</b>	<b>Con Distinción (100/100)</b>
<i>Energy 101, Curso de introducción a la energía</i>	2013
<b>Crowe Horwath</b>	<b>Duration: 3 days</b>
<i>Project Management I, Strategic management course oriented power sector projects</i>	2013
<b>Crowe Horwath</b>	<b>Duration: 3 days</b>
<i>Project Management II, Strategic management course oriented power sector projects</i>	2013
<b>University of Rochester</b>	<b>With distinction (98.3/100)</b>
<i>History of Rock, Part One, History of Rock 55-70</i>	2013
<b>University of Rochester</b>	<b>With distinction (99/100)</b>
<i>History of Rock, Part Two, History of Rock 70-now</i>	2013
<b>Venezuela Management Group</b>	
<i>Power-system protections, Systems protections related with generation and transmission lines</i>	2014
<b>Puppet Professional 2015 Certification</b>	<b>Puppet Labs, Inc.</b>
<i>Puppet Professional 2015 Certification</i>	2015
<b>Introduction to Software Product Management</b>	<b>University of Alberta - Coursera</b>
<i>Introduction to Software Product Management</i>	2015
<b>Software Processes and Agile Practices</b>	<b>University of Alberta - Coursera</b>
<i>Software Processes and Agile Practices</i>	2015
<b>Akamai Web Performance Foundations</b>	<b>Akamai</b>
<i>Akamai Web Performance Foundations</i>	2017

## Languages

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<b>Natives languages</b> .....	
<b>Spanish:</b> Native	<b>English:</b> Written and speaking
<b>Programming languages</b> .....	
<b>Go Lang:</b> Medium	<b>Ruby:</b> Medium
<b>Perl:</b> High	<b>Ruby:</b> Medium
<b>Shell:</b> High	<b>PHP:</b> High
<b>C/C++:</b> Medium	<b>Python:</b> Medium
<b>HTML+CSS:</b> High	<b>XML:</b> High
<b>Latex:</b> High	<b>DocBook:</b> High
<b>R:</b> High	:

## Computers skills

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<b>Operating Systems:</b> Windows 98/2000/Millennium/XP. GNU/LINUX. FreeBSD. Unix	<b>Office:</b> Microsoft Office. LibreOffice/OpenOffice. VIM. Emacs. Nano
<b>Graphics desings:</b> Gimp, InkScape, Photoshop	<b>Monitoring System:</b> Cacti, nagios, munin, MRTG

**Services:** Web (Apache). SMTP (Postfix). POP/IMAP (dovecot). Printing (CUPS). Share files (Samba y NFS). Proxy (Squid). Instant Messaging (eJabberd). FTP (ProFTP). DHCP. Firewall (IPtables). Directory Servers (LDAP y AD)

**Virtualization:** Docker, LXC, Xen, OpenVZ, KVM, VirtualBox

**Databases:** PostgreSQL, SQLite, MS Access, MySQL, Oracle

**Versioning:** Git, SVN, Bazaar, Mercurial

**Other tools:** Document Management Systems: OpenKM y Alfresco. CMS: Drupal, webGUI, Joomla. Tickets: Request Tracker (RT)

## Conferences dicted

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### **Second Latin American Festival of Installation of Free Software**

*GNU/Linux and Free Software in education systems* 2006

### **San Juan de los Morros**

*Debian mirror implementation* 2006

### **II National Congress of Free Software (CNSL in spanish) Maracay, Museo Aeronáutico - Venezuela**

*Introduction to GNOME graphical environment* 2006

### **I Encuentro Unefista con el Software Libre**

*GNU/Linux Debian. The Universal Operating System* 2006

### **IV World Forum of Free Knowledge**

**Maturín, Venezuela - Venezuela**

*Introduction to the development of graphics applications with perl and glade* 2006

### **Tercer Congreso Nacional de Software Libre**

**Falcon, Merida y Cumana - Venezuela**

*Virtualizing the world* 2007

### **V World Forum of Free Knowledge**

**Puerto Ordaz - Venezuela**

*Free Software for childrens and teens* 2007

### **IV National Congress of Free Softwar (CNSL in Spanish)**

**Guanare - Venezuela**

*Content Management System - CMS* 2007

### **Campus Party**

**Quito - Quito**

*Free hardware with PicDruino* 2012