

Alejandro Garrido | Curriculum Vitae

London – United Kingdom

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Personal information

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

Formal education

Simón Bolívar University

University

Electrical Engineering (Power Systems)

Caracas, Venezuela

2007–2014

Work Experience

Wonderbill

DevOps Engineer, London, United Kingdom

www.wonderbill.com

Nov 2017 – Present

Wonderbill is a start-up which consolidates and manage bills for 50K users. I was hired in order to migrate the whole application stack from AWS ECS (Elastic Container Service) to Kubernetes (on AWS). The main relevants subprojects were:

- Infrastructure bootstrapping with terraform in AWS & Digital Ocean.
- Kubernetes cluster bootstrapping with kops
- Creation of Helm Charts packages for the application stack
- Worked with CI/CD pipelines (Gitlab-CI) for the Kubernetes deployments
- Monitoring implementation using Prometheus (prometheus-operator), alertmanager and Grafana
- Log aggregation in Kubernetes using fluentd and loggly.

Sky

DevOps Engineer, London, United Kingdom

www.sky.com

Apr 2016 – Nov 2017

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, Inmutable 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 (AWS: EC2, S3) 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: Atomic, GoCD, Jenkins
 - Application Orchestration: Atomic (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

<i>Loscher Language Institute</i>	2004
Instituto Superior de Estudios e Investigaciones Tecnológicas <i>PHP and Python development</i>	ISEIT 2005
Instituto Superior de Estudios e Investigaciones Tecnológicas <i>Certified Linux System Administrator</i> Certification: "Administrador Profesional Certificado Linux"	ISEIT 2006
Instituto Superior de Estudios e Investigaciones Tecnológicas <i>Networks Specialization using GNU/Linux</i>	ISEIT 2006
CTT Corporation <i>CCNA 1 and CCNA 2</i>	CTT 2011
Matrix CPM Solutions <i>Business intelligence with Pentaho</i>	2012
Matrix CPM Solutions <i>Advanced Business intelligence with Pentaho</i>	2012
Dictado por el chef Karim Kerbaje <i>Sushi course</i>	8 hours 2012
Johns Hopkins University <i>Computing for Data Analysis, A data analysis course with R language</i>	With distinction (99/100) 2012
Johns Hopkins University <i>Data Analysis, Advanced course of data analysis</i>	(83.3/100) 2013
Georgia Institute of Technology <i>Energy 101, Curso de introducción a la energía</i>	Con Distinción (100/100) 2013
Crowe Horwath <i>Project Management I, Strategic management course oriented power sector projects</i>	Duration: 3 days 2013
Crowe Horwath <i>Project Management II, Strategic management course oriented power sector projects</i>	Duration: 3 days 2013
University of Rochester <i>History of Rock, Part One, History of Rock 55-70</i>	With distinction (98.3/100) 2013
University of Rochester <i>History of Rock, Part Two, History of Rock 70-now</i>	With distinction (99/100) 2013
Venezuela Management Group <i>Power-system protections, Systems protections related with generation and transmission lines</i>	2014
Puppet Professional 2015 Certification <i>Puppet Professional 2015 Certification</i>	Puppet Labs, Inc. 2015
Introduction to Software Product Management <i>Introduction to Software Product Management</i>	University of Alberta - Coursera 2015
Software Processes and Agile Practices <i>Software Processes and Agile Practices</i>	University of Alberta - Coursera 2015

Languages

Natives languages.....

Spanish: Native

English: Written and speaking

Programming languages.....

Go Lang: Medium

Ruby: Medium

Perl: High

Ruby: Medium

Shell: High

PHP: High

C/C++: Medium

Python: Medium

HTML+CSS: High

XML: High

Latex: High

DocBook: High

R: High

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Computers skills

Operating Systems: Windows 98/2000/Millennium/XP. GNU/LINUX. FreeBSD. Unix

Office: Microsoft Office. LibreOffice/OpenOffice. VIM. Emacs. Nano

Graphics desings: Gimp, InkScape, Photoshop

Monitoring System: 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

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

Introduction to the development of graphics applications with perl and glade

Maturín, Venezuela - Venezuela

2006

Tercer Congreso Nacional de Software Libre <i>Virtualizing the world</i>	Falcon, Merida y Cumana - Venezuela 2007
V World Forum of Free Knowledge <i>Free Software for childrens and teens</i>	Puerto Ordaz - Venezuela 2007
IV National Congress of Free Softwar (CNSL in Spanish) <i>Content Management System - CMS</i>	Guanare - Venezuela 2007
Campus Party <i>Free hardware with PicDruino</i>	Quito - Quito 2012