

Fernando Álvarez

Software Engineer

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ABSTRACT

I'm a master degree IT professional mainly focused on backend systems and operations, with a deep background in software development and automation. I enjoy clean, documented and tested code, and keep reading and learning about new technologies. I'm passionate about what I do and can work readily either alone or within a team. I don't fear of talking in public or taking responsibilities, as I consider myself to have good leadership skills. I'm also able to provide advance technical support and be ready to react to an emergency whenever it comes up.

WORK EXPERIENCE

dotCloud Inc. (Berlin, Germany)

Software Engineer and Operations, August 2014 - present

- ▶ Bootstrap a PaaS from scratch to +2000 users based on the already existing cloudControl PaaS
- ▶ Operate and orchestrate an underlying infrastructure based on Google Compute Engine
- ▶ Development of new backend components such as MySQL instances provisioning, ops automation tools or migration scripts
- ▶ Adapt the existing cloudControl's Python CLI to dotCloud
- ▶ Document all migration steps from old dotCloud to new platform
- ▶ Provide technical support to existing customers
- ▶ Join a regular on-call schedule using PagerDuty

cloudControl GmbH (Berlin, Germany)

Software Engineer and Operations, August 2012 - present

- ▶ Implementation of software services, components and REST APIs in multiples languages and frameworks: Python, Django, Java, Ruby, Sinatra, PHP, Go
- ▶ Management and orchestration of an underlying infrastructure based on Amazon AWS using tools like Opscode, Chef, Hubot or in-house bootstrap scripts
- ▶ Monitor platform health using services like Pingdom, New Relic, Serverdensity or Logentries
- ▶ Heavy use of Git as VCS, branch-based features development and code reviews via Pull Requests
- ▶ Maintenance of several open source projects like cloudControl's Python CLI, Python or Go API libraries
- ▶ Implementation and scaling of load balancers routing layers, based on nginx, Varnish, Redis and WebSockets
- ▶ Handle thousands of logs using MongoDB and rsyslog
- ▶ Integrate internal components' deployment with CI services like Jenkins or TravisCI
- ▶ Write technical and non-technical platform documentation and sample apps in multiple languages
- ▶ Join a regular on-call schedule using PagerDuty

Repsol S.A. (Madrid, Spain)

Software Engineer Intern on Refining Dept., October 2011 - March 2012

- ▶ Be involved on big projects between Repsol and third party contractors
- ▶ Analysis of incoming data from refining stations using SQL
- ▶ Learn about software engineering and management within a big corporation
- ▶ Take part of an official course about leadership

Consorcio Regional de Transportes (Public Company) (Madrid, Spain)

Technical Intern on Commercial Dept., July 2011 - September 2011

- ▶ Data analysis using Visual Basic for Applications

EDUCATION

Universidad Complutense de Madrid (Madrid, Spain)

IT Engineer Master Degree, 2004 - 2012

Philipps-Universität Marburg (Marburg, Germany)

Computer Science Erasmus Student, 2009 - 2010

TECHNICAL SKILLS

Programming languages:

- Advanced level: Python, Go, Bash
- Intermediate level: Ruby, Java, PHP, JavaScript, C
- Amateur level: C++, Haskell, Scala, Erlang

Git

Operating Systems: Unix systems, Ubuntu, Debian

Databases: *SQL, MongoDB, Redis, Memcached

Infrastructure:

- Amazon AWS: EC2, Route53, S3, RDS, CloudWatch, SQS
- Google Cloud Engine: Cloud, Storage, SQL

Continuous Integration/Deployment: Jenkins, TravisCI, drone.io, Coveralls

HTTP: nginx, nginx-lua, Varnish, Pound, Hipache, WebSocket, SSL/TLS

Ops: LXC, Supervisord, Chef, Hubot, ssh, scp, DNS, Unix, Vagrant, Docker, cron, OpenVPN

Monitoring: Pingdom, New Relic, Serverdensity, Logentries, PagerDuty

Documentation: Markdown, Google Docs

Software Engineering: Agile methodologies, TDD/BDD, Kanban, Scrum, Extreme Programming, Software Craftsmanship

OPEN SOURCE

oscillatingworks: currently bootstrapping an independent open source organization - <http://oscillating.works>

cctrl: cloudControl command line utilities - <https://github.com/cloudControl/cctrl/commits/master?author=fern4lvarez>

gocclib: Go library for the cloudControl API - <https://github.com/fern4lvarez/gocclib>

goduckgo: Go package for DuckDuckGo API - <https://github.com/ajanicij/goduckgo>

gs3pload: Upload files to multiple S3 or Google Storage buckets at once - <https://github.com/fern4lvarez/gs3pload>

documentation: cloudControl PaaS documentation in GFM - <https://github.com/cloudControl/documentation/commits/master?author=fern4lvarez>

LANGUAGES

Spanish: Native language

English: Full professional proficiency

German: Intermediate proficiency

MISCELLANEOUS

<http://www.fer.ac>