

# Fernando Álvarez

Software Engineer

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## ABSTRACT

I'm a master degree IT professional mainly focused on software engineering with a deep background in backend systems, operations 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 mentorship.

## WORK EXPERIENCE

### **Locafox GmbH** (Berlin, Germany)

Software Engineer, May 2015 - present

- ▶ Design and implement new key backend components, mostly written in Go
- ▶ Build automation and deployment solutions with Jenkins and Docker, using AWS as infrastructure
- ▶ Maintain and document project codebases written in Go
- ▶ Handle big data provided by retailers in csv, json and xml format, being persisted in PostgreSQL and MongoDB
- ▶ Take active part of the on-boarding process of new retailers in the platform
- ▶ Teaching and mentoring of coworkers into Go development
- ▶ Coordinate and collaborate with external teams on outsourced software projects

### **cloudControl GmbH** (Berlin, Germany)

Software Engineer and Operations, August 2012 - May 2015

- ▶ Implementation of software services, components and REST APIs in multiples languages and frameworks: Python, Django, Java, Ruby, Sinatra, PHP, Go
- ▶ Administration of production MySQL databases
- ▶ Management and orchestration of an underlying infrastructure based on Amazon AWS and Google Compute Engine 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, port CLI to dotCloud
- ▶ Implementation and scaling of load balancers routing layers, based on nginx, Varnish, Redis and WebSockets
- ▶ Handle load 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
- ▶ Bootstrap dotCloud PaaS from scratch to +2000 users based on the already existing cloudControl PaaS ops automation tools or migration scripts
- ▶ Document all migration steps from old dotCloud to new platform
- ▶ Provide technical support to existing customers
- ▶ 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: Go, Python, 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, Supervisor, 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>

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

**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>