

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, implement and document new key backend components, mostly written in Go
- ▶ Build automation and deployment solutions with Jenkins and Docker, using AWS as infrastructure
- ▶ 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
- ▶ 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

Consortio 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, 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>