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# Nicolás Marguglio

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## skills

**Tools**    emacs, vim, svn, git, tcpdump, nmap, docker, ssh, wget, curl, ansible  
**Admin**    Apache, Nginx, Kubernetes, qemu-kvm, dnsmasq, qmail, postfix, dovecot, fluentd  
**DB**        mysql, mysql percona cluster, postgres, citusdb, elasticsearch, redis, OpenLDAP, Kafka  
**OS**        Gentoo, Red Hat, ContainerLinux, Debian

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## programming languages

**Advanced**                common lisp, bash  
**Intermediate**        golang, sql  
**Previous Experience**    erlang, c, javascript, typescript, python, perl, php, glsl, clojure, rust, ocaml, lua

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## idioms

Spanish    Native  
English    Upper Intermediate

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## job experience

### Email Hosting Software Engineer III — Web.com

2017-2018

- Worked on the conversion of a Qmail based mail platform from Gentoo to Redhat.
- Created rpms/spec files.
- Worked on the development of a replacement for Qmail on the platform with a solution based on Dovecot.
- Implemented a logging solution based on Fluentd, Kafka and Postgres. To identify bad actors and blacklist them accordingly.
- Worked on optimizing current web performance, adding cache layers and investigating new load balance solutions.

### Web Hosting Software Engineer II — Web.com

2014-2016

- Continuing to work on customer support escalation.
- Worked on wordpress multinetwork hosting platform, based on nginx and percona cluster (mysql).
- Packaging and maintaining all the software related to the Gentoo based shared hosting platform.
- Maintaing the in-house configuration management tools and related PXE servers and custom kernel build.
- Worked on the development of a nginx based proxy for SSL-termination. Developed in Lua scripts and redis.
- Deployed a Kubernetes cluster for development of internal applications.

### Web Hosting Software Engineer I — Web.com

2011-2013

- Troubleshooting customer issues on a Unix shared web hosting platform.
- As the last level of support I was responsible of understanding in depth the issue and finding the root cause of it.
- Which consisted of coding issues on the cx code, bad configuration on the server side or missing software configurations.

- Network design and deploy of a OpenVPN node and squid proxy. Maintenance and technical support.

## education

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Professional Penetration Tester	Base4 University	2015
Red Hat System Administrator I	IT Collage	2014
Systems Engineer	UTN - Incomplete	2010-2011

## personal projects

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[CV](#) This CV, written in LaTeX, build and published through Github Actions

### Golang + Typescript (React/Next.js)

- Fullstack [app](#) to search and organize IRC logs from a 'postgres' database.

### Common Lisp

- [Several game engines](#), based on OpenGL
- Wrappers for [multiple 3rd party C](#) libraries
- Multiple [audio](#), [video](#) and [midi](#) sequencers
- A simple GTK [helper](#) for shell scripts

### Gentoo Linux

- A Portage [repository](#), to build 3rd party software.
- [Minimal](#) and target [specific](#) Docker images, using different libc's and Github Actions to build.

### Golang

- RSS feed generators, for [twitch](#) and [github](#).
- Command line clients to view comments on [imageboards](#), [reddit](#), [hackernews](#), [twitter](#).
- IP address [metadata](#) gatherer, asking different cloud providers and WHOIS.

### Bash

- [autoaim](#) Integrate several OSINT tools for automatic recon. Postgresql backed.
- [daily-pic](#) HTML scrapper. Downloads wallpapers from 10 different sites.

### Erlang

- Public DNS record [monitor](#).

### C

- System [monitor](#) using 'upower', 'x11', and 'postgres' libraries to record system state changes.