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# Nicolás Marguglio

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## about me

I spend most of my professional career maintaining and designing high-scalable Linux systems. More recently, I have been learning how those systems are built from the programming side.

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## technical skills

<b>programming</b>	common lisp, bash, go, typescript, erlang, awk, jq, elm
<b>tools</b>	emacs, git, tcpdump, nmap, docker, ansible
<b>servers</b>	apache, nginx, kubernetes, qemu, dnsmasq, qmail, postfix, dovecot
<b>databases</b>	mysql, postgres, elasticsearch, redis, openldap
<b>OSs</b>	Gentoo, Red Hat

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## languages

<b>English</b>	Upper Intermediate
<b>Spanish</b>	Native

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## job experience

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

2017-2018

- Participated in the conversion of the email hosting platform.
  - from one based on *qmail* and *courier-imap*, to one based on *Postfix* and *Dovecot*
  - from *Gentoo* to *RedHat*
  - created rpms of custom patches
  - authored *ansible* playbooks for the new servers
- 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
  - 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* and *Redis*.
- Deployed a *Kubernetes* cluster for development of internal applications.

- Troubleshooting customer issues on a *Linux* 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 customer code, bad configuration on the server side or missing software configurations.

**Jr. Linux System Administrator — Sols S.A.****2011**

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

## education

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

## personal projects

Common Lisp	· several <a href="#">game engines</a> and <a href="#">midi</a> sequencers
Typescript	· reddit <a href="#">image gallery</a> made with React
Gentoo	· <a href="#">minimal docker</a> images
Bash	· integrate several <a href="#">security tools</a> for automated bug bounty work
Golang	· command line clients to view <a href="#">comments</a> of different websites
Erlang	· monitor of public <a href="#">dns</a> records
C	· local system <a href="#">monitor</a>
Elm	· fully <a href="#">searchable</a> database of tech podcast episodes. Updated daily.
Latex	· this <a href="#">resume</a> , build and published through Github Actions