

# NICOLAS S. VILLANUEVA

{Sysadmin | dev} for fun and profit, looking for new challenges



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## SUMMARY

I am an IT professional, largely by trade, with working experience in the setup and maintenance of **scalable, resilient** architectures. I have a strong suit for collaboration and efficiency, while being highly organized and responsible in my work. I possess professional experience in **cloud** infrastructures, **distributed systems** and **continuous integration** and delivery. Non-professionally, I have dabbled with backend development, game development and information security.

I am currently seeking a new position related to **systems architecture, reliability, and operations** (so called SRE, DevOps), or **systems programming**.

## KEY SKILLS

Sysadmin	Linux-based servers mgmt. <div><div></div></div>	Development	Golang <div><div></div></div>
	Container technologies <div><div></div></div>		Python <div><div></div></div>
	Amazon Web Services <div><div></div></div>		UNIX shell scripting <div><div></div></div>
	Google Cloud Engine <div><div></div></div>		Java <div><div></div></div>
	Distributed systems <div><div></div></div>		TeX <div><div></div></div>

## ACHIEVEMENTS

My team and I implemented the first Mesosphere DC/OS Enterprise cluster in Argentina, around 2016. I became the non-official consultant for cloud architectures, Docker and systems monitoring in the company.

I co-organized (and gave a talk in) the first DC/OS meetup in the region. We had official support from Mesosphere on the organization of such meetup.

I also gave a talk in Blackhat Arsenal Europe 2016 and co-organized a local meetup focused on APIs in general: APIs-ARVI. Involved in initiatives focused on gender diversity in engineering, I was a mentor in two Chicas en Tecnología events.

- PUMM August 2017: <https://www.chicasentecnologia.org/pumm-agosto-2017>
- PUMM October 2017: <https://www.chicasentecnologia.org/pumm-octubre-2017>

## WORK HISTORY

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10/2011 – Present	<b>DevOps Engineer, NaLabs, Argentina (part-time, remote)</b> Contractor work for a small firm in Argentina. Administration of Red Hat systems. Development in Go (golang) and Python. General Linux administration.
04/2016 – 08/2018	<b>DevOps Engineer, Redbee Studios, Argentina</b> Built the infrastructure for Prisma S.A.. A full microservices architecture, built using Scala and Play! Framework, running in Docker containers. Orchestrated with DC/OS Enterprise. Managing 4 clusters/environments: Development, QA, Production, DRS (Disaster Recovery System, the production backup). Designed for high availability and scalability. Systems monitoring, building and delivery process automation. Linux (CentOS) servers administration. Coding in Bash, Python, GoLang. Operations and infrastructure support for several internal teams. Recruiting, training and coordination of new DevOps Engineers.
09/2015 – 03/2016	<b>Software Developer Engineer in Test (SDET), Redbee Studios, Argentina</b> Contractor work for Rich Relevance as Big Data Automation Engineer. Helped develop a full suite of automated functional tests, using Selenium and Java 8. Also providing DevOps support for local teams. Working on building and deployment workflows, to local/development/production environments everything running on Docker.
09/2013 – 08/2015	<b>Automation developer &amp; DevOps, Despegar.com, Argentina</b> Created the automated testing systems for the Viajeros.com project: Implementation and maintenance of tests, monitoring of tests and servers. Monitoring of uptime and performance of servers using Munin and New Relic (RPM and Insights). Security, load and performance testing. Performed some DevOps tasks for the Despegar Affiliate Network project. Design of clusters for new applications. Releasing and deployment of new versions. Installation and configuration of Cassandra, Redis and Spark servers.  <b>Before 2013</b> Feel free to inquiry about my history before 2013, which was much more oriented towards manual quality assurance.

## EDUCATION

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Although I gained most of my skills by self-learning (as a hobby) and hands-on working experience, I also took a few courses.

2019	<b>Scalable Microservices with Kubernetes, Udacity (Online)</b> Management of Kubernetes clusters, and Google Cloud Engine infrastructures.
2014 – 2015	<b>Web Security, NOP07, Buenos Aires</b> Web security, focused on red-teaming.
2013 – 2014	<b>Computer Security, Educacion IT, Buenos Aires</b> Web security, penetration testing, network security. Red- and blue-team techniques.
2012 – 2013	<b>Java Development, Educacion IT, Buenos Aires</b> Java EE7 and Android development.
2010 – 2011	<b>Web Development, Universidad Tecnológica Nacional, Buenos Aires</b> Web development, marketing and design

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## HOBBIES AND PERSONAL INTERESTS

As mentioned before, my technical skills were mostly learned by hobby. I have a fairly prolific Github account (<https://github.com/nicovillanueva>) with several of my personal projects, ranging from deployment and cluster managements tools, to a collaborative platform for p5.js sketches (in progress).

As I have a knack for information security, I also developed a proof-of-concept ransomware and a reverse-shell for gaining access to nodes in distributed clusters. Other relevant interests include: **privacy** and online rights of individuals, **machine learning**, image and **signal processing**, and **digital art**.

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## REFERENCES

- Hervé Odiard, Redbee Studios  
herve@redb.ee
- Gustavo Muzillo, NaLabs  
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- Pablo Castelo, NaLabs  
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Thank you for reading