

Stephano Zanzin Ferreira

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Freelance Senior Systems Engineer, DevOps

Design and Development of Modern High-Performance Systems, Infrastructure and DevOps solutions.

- **Senior Engineer** offering more than 13 years of experience in a wide range of programming languages, methodologies and platforms. With focus on high-performance systems, micro-services, distributed systems and state-of-the-art solutions to solve large scale problems.
- **DevOps Advocate**, exercising the practice since its very beginning and strongly advocating the use of DevOps solutions at all aspects of the systems development life-cycle. From planning, creating and testing to deployment.
- **Experience in technical leadership.** With deep understanding of technology and experience in the implementation of hundreds of solutions, I can provide guidance and expertise in all stages of development. Therefore, I'm able to actively work on the design, architecture, project management and actual implementation.
- **Multidisciplinary approach.** Having a strong background in back-end development and a vast systems administration knowledge, I think outside the box to solve problems.
- **Diverse experience.** Having worked with companies of different sizes and practices, I can easily adapt in order to understand the needs of each business and environment.

Experience

As a Freelancer

Below some of the companies I had the pleasure to provide services as a freelancer.

FREELANCE DEVOPS ENGINEER, VOLKSWAGEN AG - 2018-2020

World's largest automaker. At Volkswagen I provided DevOps services to the Container Orchestration team for one of their large-scale platforms. The team was in charge of developing and implementing container-based infrastructure and managing all Kubernetes clusters in the project, running hundreds of car technology related applications. My work included deploying, maintaining, upgrading and monitoring several Kubernetes clusters, performing on-duty calls, automating all aspects of the infrastructure, implementing innovative logging and metrics-systems, providing guidance and leadership, and performing all required DevOps tasks in the team.

FREELANCE DEVOPS ENGINEER, RIGHTSUP - 2015

Startup based in Berlin and Brussels. RightsUp collects rights for musicians and labels. I migrated their systems from AWS to a Docker-based platform running dedicated servers, in order to provide a better deployment solution, increase the general performance of the system and reduce costs. I also advised them in the refactor of their monolithic application to a more flexible micro-services architecture, which could provide a more errorproof and robust system than the initial platform.

FREELANCE SOFTWARE ENGINEER, MOHOUND - 2013-2014

Startup with offices in Palo Alto, CA and Mexico City, MX. Mohound is a platform for marketing automation, they facilitate and automate the process of buying ads in many different networks across the US and Mexico. I worked together with their tech team designing, developing and implementing a micro-services oriented architecture to improve the performance of their platform.

FREELANCE DEVOPS AND SOFTWARE ENGINEER, LUXDELUX - 2013

Startup based in Las Vegas, US. LuxDelux was co-founded by the Zappos founder, Tony Hsieh, and it's basically an online marketplace for luxury services. I provided consulting services to them in the first stages of development of the platform, designing and developing the platform in Ruby and also taking care of their DevOps needs.

FREELANCE SOFTWARE ENGINEER, AMGEN - 2013

Biopharmaceutical company based in the US. In collaboration with the consulting firm Plataformatec, we built a system to simplify the process of business acquisitions, a relatively complex and tedious process before made by hand using a large amount of paperwork

As a Full-time Employee

Below some of the companies I had the pleasure to work for as a full-time employee.

SENIOR DEVOPS ENGINEER, SIGNAVIO GMBH; BERLIN, GERMANY – 2016-2018

Signavio is one of the leaders in their field, they provide a SaaS BPMN solution and a Decision Management tool to many customers across the globe. I occupied the position of Senior DevOps Engineer there, creating automation tools, improving their Puppet system, developing diverse APIs to collect server and app data, improving their CI systems, maintaining their infrastructure of servers in Europe, US and Asia. I also led the introduction and implementation of Kubernetes-based solutions to their products, ChatOps integrations, developed Open Source projects, and much more.

Some technologies involved: Go, Ruby, Java, Docker, Kubernetes, Kafka, ELK, Graylog, Prometheus, InfluxDB, MySQL, Postgres, Terraform, Puppet, Ansible, Linux, AWS, Azure, Jenkins, Gitlab CI, Travis CI.

SENIOR SYSTEMS SPECIALIST, LOCAWEB; SAO PAULO, BRAZIL – 2013-2015

Locaweb is the biggest hosting provider in Latin America, with 340.000+ hosted websites and 60.000+ servers in their data centers. I was a member of one of the most senior DevOps teams in the company. The team is in charge of researching new technologies, develop and implement solutions for some of Locaweb's most complex problems, on the infrastructure and datacenter level. During my time in the team, I worked on the development of a scalable and precise big data metrics system for their massive data centers, developed container-based solutions using Docker and Go, maintained some of their legacy systems, created a solution using Cgroups to monitor and limit the customer resources in the shared hosting platform, participated in the development of a block storage solution to replace their legacy storage system, helped designing a new hosting solution based on Mesos + Docker and so on.

Some technologies involved: Python, Haskell, C, Go, Ruby, Kafka, InfluxDB, Collectd, Graylog, Docker, Consul, Postfix, Cgroups, Kafka, OpenStack, Mesos, Puppet, Jenkins.

SENIOR CONSULTANT, CODEMINER 42; SAO PAULO, BRAZIL – 2011-2013

Codeminer 42 is one of the most important tech consulting firms in Brazil. Directly working with national and international VC firms and frequently hired to rapidly bootstrap new companies. Some of the projects I worked there include Olook, an e-commerce startup which went from 0 to 500.000 users in three months of operation, and Locaweb, the biggest hosting provider in Latin America.

At Olook my main function was to take care of their DevOps needs together with back-end development duties on the platform as well. The platform was developed in Ruby and deployed on Heroku and AWS.

At Locaweb I worked in the team responsible to create a new and more modern storage architecture. Our duties consisted of implementing technology from F5, EMC and Avere, and create a storage management solution to analyse the systems and automate the provision of storage services in a network of 1000+ storage machines and 8 petabytes of data.

Some technologies involved: Ruby, Perl, C, Heroku, AWS, MySQL, Postgres, Redis, F5 ARX, EMC Isilon, Avere FXT, OpenSolaris, Linux, OneFS, ZFS, Puppet, Capistrano.

CONSULTANT, ELC TECHNOLOGIES; PORTLAND, OR – 2010-2011

ELC is an American consulting firm, it's the company behind the cloud management solution RightScale. There I worked in internal projects and also did consulting for many of their clients, including coding for one of ESPN's social portals and creating a web application to manage water pumps for Arrayent.

Some technologies involved: Ruby, Rails, Sinatra, C, Postgres, Redis, MongoDB.

SYSTEMS ENGINEER, BOO-BOX; SAO PAULO, BRAZIL – 2009-2010

Boo-box is one of the biggest ad networks in Brazil, they are backed by Monashees and Intel Capital. They've established themselves as an important online advertising player in Latin America, displaying ads to an audience of more than 60 million people. As a member of the initial team that built the platform from the ground up, I was in charge of their infrastructure, therefore working on the systems administration, HA, site reliability, automation, deployment and so on.

Some technologies involved: Ruby, Rails, Merb, CouchDB, Redis, Memcached, PostgreSQL, Capistrano.

SYSTEMS ADMINISTRATOR, METRÔ DE SÃO PAULO; SAO PAULO, BRAZIL – 2007-2009

Metrô-SP is the governmental company that operates the rapid transit system of the City of Sao Paulo, a system that transports more than 3 million people per day. I was one of the systems administrator responsible for many of their systems, from proxies and status information systems to E-mail servers.

Some technologies involved: Qmail, JBoss, FreeBSD, OpenBSD, Solaris, Linux, IBM z/VM, MySQL, Postgres, Oracle and all the old and not-used-anymore technology you can imagine.

SOFTWARE DEVELOPMENT INTERN, ABERIUM SYSTEMS; SAO PAULO, BRAZIL – 2006-2007

Aberium Systems was a startup owned by Blue Pex, they were in charge of developing new solutions for embedded systems and appliances, including routers, proxies, and firewalls. My main duties were to actively participate in the development, maintenance and support of all of their solutions. In other words, code, fix bugs, perform on-site installations, provide customer support, and much more.

Some technologies involved: C, Python, Perl, Soekris, FreeBSD, OpenBSD, Linux, MySQL, Postgres.

Skills

PROGRAMMING LANGUAGES

Ruby, Python, Perl, Go, Erlang and C/C++.

OPERATING SYSTEMS

Linux, FreeBSD, OpenBSD, Solaris, Plan 9 and macOS.

Languages

Fluency in English, Spanish and Portuguese.