

# Stephano Zanzin Ferreira

29 years old, based in Berlin, Germany  
[contact@szfs.eu](mailto:contact@szfs.eu) | <http://github.com/microwaves> | <http://szfs.eu>

## Senior Systems Engineer, DevOps

*Design and Development of Modern High-Performance Systems, Infrastructure, DevOps and Back-End*

- **Senior Engineer** offering more than 11 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 automation at all aspects of software construction. From integration, testing, releasing to infrastructure and 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, actively working on the design, architecture, project management and the actual implementation.
- **Multidisciplinary approach.** Having a strong background in Back-End Development and a vast Systems Administration knowledge, I'm able to think outside of the box to tackle 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

### **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 - RESEARCH, LOCAWEB; SAO PAULO, BRAZIL – 2013-2015**

Locaweb is the biggest hosting provider in Latin America, with more than 60.000 servers in their datacenters. After a period of time living in the United States I returned to Brazil and then, I was invited by their R&D manager to join the team. The team is in charge of researching new technologies, develop and implement solutions for their most complex problems, especially in the infrastructure and datacenter level. During my time working in the team, I worked mainly developing a scalable and precise big data metrics system for their massive amount of machines, I also made a lot of research using Docker and Go, maintained some of their legacy systems, created a solution using Cgroups to monitor and limit the customers resources in the shared hosting platform, led the development of a block storage solution to replace their legacy storage system based on Cinder, helped to design 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**

Codeminor 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, but also exercising a lot of Back-End development on the platform itself together with my infrastructure, HA, deployment and automation responsibilities. At Locaweb I worked in a team responsible to create a new and more modern storage architecture.

Our duties consisted in implement technology from F5, EMC and Avere, and create a management system to analyse data 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 their initial team whose built the system from the ground up, I was in charge of all their server infrastructure and DevOps needs, 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 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.*

## **FREELANCER**

Below I list some of the companies I had the pleasure to work with as a freelancer and a short description of the projects.

- **Amgen.** Biopharmaceutical company based in the US. In collaboration with the consulting firm Plataformatec, we built a system to simplify the organisation of business acquisitions, a process before made by hand using tons of paperwork.
- **Mohound.** Startup based in Palo Alto, CA. 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.
- **LuxDelux.** 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.
- **RightsUp.** 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 over 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 DDD architecture, which could provide a more errorproof and robust system than the initial platform.

## **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.