

GUSTAVO YZAGUIRRE

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Live-Streaming engineer, DevOps, Sysadmin, SRE and Developer.
Decision making, critical thinking and problem solving skills.
I like Linux and all those free things that I can learn...

Current position

Live Streaming engineer at ToolBoxToolBox.
Member of the team “Desarrollo de la Coordinación de Fortalecimiento de Innovación e Infraestructura de Tecnologías” at Sedronar.

Areas of Knowledge

- ✓ Live Streaming Engineer since 2022.
 - High availability systems for live streaming and high traffic distribution.
 - Custom software development, deploy and management.
 - Multimedia decoding, transcoding, encoding for live stream scenarios.
 - Packaging and delivery of content.
 - Knowledge working with CDNs (Akamai, CloudFront, Lumen).
 - Setup and deploy of DRM.
 - Custom monitoring using Zabbix, NewRelic and ELK stack.
 - Automatization of custom, specific metrics for RCA and troubleshoot of common scenarios.
 - Tight collaboration with other teams, tasks and their stacks:
 - MERN, Docker Compose, Kubernetes.
 - ADs workflow for Live streams:
 - Preconditionign for DASH
 - Preconditioning for HLS
 - MediaTailor, GAM, scte-35, scte104...
 - Experimenting with Low-Latency streaming and CMAF...
 - Knowledge working with industry standards and open source tools.
 - Custom developments to fit the requirements of the projects.

- ✓ **System administration** since 2012.
 - *Bash and CLI* are my things...
 - Specialized on GNU/Linux.
 - Advanced routing, networking and hardware knowledge.
 - Professional knowledge on Nginx and Apache.
 - Manager of big DBs (MySQL, MariaDB and Mongo).
- ✓ Used to be focused on the design and the implementation of **cloud-based solutions**.
 - Managing Kubernetes in production since 2019 (EKS, EC2, RDS, S3). AWS.
 - Infrastructure as code with terraform.
 - Avid Docker user and docker composer deployer.
- ✓ While doing the aforementioned, I stumbled upon the **DevOps** culture.
 - Design, management and deploy of CI/CD pipelines.
 - Git (since always) and git workflows.
 - Provisioning with Ansible... (*lots of roles*)
- ✓ Linux Maintainer and community member...
 - Used to be involved in the puppy Linux Project.
 - Then switch to Slack and published several *slackbuilds*...
 - Then switched to Arch...
 - *I use arch btw.*
- ✓ **Developer** since 2011.
 - Software development with Perl and C.
 - Good level of NodeJs, Python and lua.
 - Currently learning Raku and Go.
 - PHP programmer from 2015 (Symfony, Laravel, qcodo).
- ✓ Solid knowledge of **frontend** components.
 - HTML, CSS, Js, Bootstrap and micro-frameworks.
- ✓ Deployment, administration and development of **CMS and LMS** since 2013.
 - Working with Drupal, Joomla and Wordpress.
 - Working, developing and managing *Moodle* (We had 3000+ users and over 70 courses).

Professional Experience

- ✓ **April 2022 - today** Live Streaming engineer at ToolBox. This job is highly specific and centered around state-of-the-art live stream technologies applied to OTT.
- ✓ **November 2021 - today** Member of the IT team in Sedronar (“Coordinación de Fortalecimiento de Innovación e Infraestructura de Tecnologías”). *Currently designing the kubernetes stack to support the old systems that server over 8000+ users.*
- ✓ **August 2020 - June 2022** Freelance work as SRE in Amazon AWS mainly (Kubernetes, Docker, Terraform). *Worked on several projects that involve fixing bugs and redeploying applications and stacks.*
- ✓ **January 2015 - December 2018** Freelance mainly on the LAMPP stack and CMS based (Drupal, Joomla, MovableType, ProcessWire). *We speak directly with the customers and find the solution to their needs, offering a full plan with development, deployment and hosting.*
- ✓ **October 2015 - November 2023** Coordinator of the Free Software Laboratory (“Laboratorio de Software Libre”) in ATAM. *Project management aiming to produce “Free as in Freedom” Software.*
- ✓ **July 2013 - November 2023** Administrator of the academic support platform (plataformas de apoyo), communication and the virtual education systems in ATAM (Moodle, Nginx, Apache, Mailman, Jitsi, Zoom). *Site reliability, testing, scaling is a must, we have over 3000+ students and 35k visitors monthly!*
- ✓ **February 2012 - November 2023** Senior System Administrator at ATAM. *This includes mail server, file hosting, several CMS and web applications, newsletter system among other resources currently developed and scaled under my supervision.*

Education

- ✓ 2010 - 2011 **Licenciatura en Composición con Medios Electroacústicos**, Universidad Nacional de Quilmes (UNQ), Quilmes, Argentina. *University degree.*
- ✓ 2006 - 2010 **Diplomatura en Música y Tecnología**, Universidad Nacional de Quilmes (UNQ), Quilmes, Argentina. *Intermediate degree.*

Languages

- ✓ **English** Advanced.
- ✓ **Spanish** Native.

AWS Certifications

- ✓ Job Roles in the Cloud
- ✓ Getting Started with DevOps on AWS
- ✓ Introduction to AWS CloudFormation
- ✓ Introduction to AWS Command Line Interface (CLI)
- ✓ AWS Shared Responsibility Model
- ✓ Introduction to AWS Identity and Access Management (IAM)
- ✓ Introduction to Containers
- ✓ Introduction to AWS Organizations
- ✓ Amazon EKS Primer
- ✓ Introduction to Amazon Elastic Load Balancer Application
- ✓ AWS Cloud Development Kit Primer
- ✓ Troubleshooting: Amazon Elastic Compute Cloud (Amazon EC2) for Linux
- ✓ Amazon EC2 Basics
- ✓ Getting Started with Amazon Simple Storage Service (Amazon S3)

Some other projects

2022 Concurso Nacional a la Innovación y Transferencia en Desarrollos para Industrias Culturales Member of the winning team, under the direction of Lisandro Fernández on the project «Reproductor portable de secuencias de control MIDI» (“Portable player of MIDI control sequences”).

2019 Educational Podcast Co-developed a website and a podcast for Chinese -mandarin language-students (speakchinesenaturally.com).

2018 UVQ System for Author Case analysis and development, Universidad Virtual de Quilmes (Virtual University of Quilmes). Developed a web system for the authoring and editing of content.

Hobbies

- ✓ Music. *Always a musician... I play several instruments and have way too many.*
- ✓ Literature. *I like to read new authors and anything about history or politics. Currently reading Aquille Mbembe and Saer...*