# Andrés Renaud

Curriculum Vitae

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I'm an enthusiastic DevOps engineer who loves open source tools like Linux, Kubernetes, and OpenSearch to make applications more reliable.

## Ideal stack

- Managed Kubernetes nodes in AWS
- Terraform for IaaC
- o CI/CD with GitHub Actions
- OpenSearch for observability

## Other tools

## **Operating Systems.**

o Ubuntu, CentOS, SUSE, RedHat, Debian, Windows

## Clouds.

o AWS, Azure, vSphere, vCloud Director

#### **Configuration Management**.

Terraform, Ansible, AWS SSM Inventory

#### Automation.

o Kubernetes, Docker, Git, GitHub Actions, Jenkins, Bitbucket Pipelines

#### Databases.

 ${\tt o\ MySQL,\ MariaDB,\ SQLite,\ InfluxDB,\ PostgreSQL,\ DynamoDB}\\$ 

#### BigData.

o BigTable, Hive, Elasticsearch, Databricks, Superset, Metabase

## **Programming Languages.**

o Python, TypeScript, C, Assembler, Bash, Java, JavaScript, LaTeX, R

#### Data Analysis.

o R, Elasticsearch, Kibana, Python, MATLAB, Tableau, Excel

## **Product Development**.

o Agile, Jira, Project Requirements, Planning and Management

## Software Frameworks.

o Spring Boot, Flask, JBoss, Laravel, Kivy, Bootstrap, Express

#### Other Libraries.

o boto3, pandas, websocket, pyserial, ggplot2, refind, csv

#### Security.

 Apache WAFs, DB and OS hardening, HIDS for Kubernetes with Elasticsearch, TWIGS, AWS Well Architected Framework, Currently under CompTIA Security+ Training

## Experience

## DevOps

## 2022–2024 **Senior DevOps and later Cloud Infrastructure Manager**, *Windifferent*, Montevideo, Uruguay.

- Managed AWS infrastructure and application deployments using Terraform, Kubernetes, Octopus, and Atlassian stack
- Debugged data platforms (Databricks, Kafka) and Superset/Metabase on Kubernetes and ECS
- Led team documentation, user authorization policies, and CI/CD pipelines with Octopus, Bitbucket, and JFrog
- Monitored systems with OpenSearch, Grafana, Datadog and tracked projects via lira

## 2020–2022 **Senior DevOps Engineer**, *Upwave*, Montevideo, Uruguay.

- Managed AWS infrastructure and deployments using Terraform, Kubernetes, Jenkins, CodeBuild, and GitHub
- Authored company-wide Terraform best practices and managed monitoring tools: Prometheus, Grafana, CloudWatch
- Performed log analysis with Elasticsearch/OpenSearch and automated its configuration via TypeScript tools
- Implemented SSM Inventory for terminal connections and automated provisioning with Systems Manager Documents
- Automated AWS services reporting and management using Python and Boto3
- Administered multiple EKS clusters with Terraform and kubectl; configured Nginx ingress via Kustomize
- Developed Terraform Cloud modules and workspaces for multi-region support
- Automated server provisioning with Ansible and Terraform
- Secured infrastructure: addressed UI redressing, clickjacking; enforced DMARC; managed certificates with ACM; ran TWIGS analysis

## 2018–2019 Reliability Engineer, Netlabs, HG Offices, Montevideo, Uruguay.

- Managed Linux production environments as part of the SRE team
- Developed Business-as-a-Service solutions on VMware private cloud
- Managed virtual infrastructure with vCloud Director and Ansible
- Built CI/CD pipelines using Jenkins and Git
- Deployed Docker Swarm for delivering Zabbix, ELK Stack, and HIDS containers
- Created a CMDB of virtual infrastructure and software using Ansible
- Built hardened VM templates and automation scripts; contributed to architecture
- Deployed critical updates to Java/JBoss applications on Ubuntu, Debian, RedHat, and CentOS
- Maintained and updated technical documentation
- Administered firewalls and load balancers using iptables, F5, and Fortinet
- Delivered high-availability web services with Apache, NGINX, Keepalived, and HAProxy
- o Deployed monitoring tools: Zabbix, Elasticsearch, Kibana, Grafana
- o Created data visualizations using ELK Stack with Beats and custom scripts

## 2017–2018 **Reliability Engineer**, *Netlabs*, HQ, Montevideo, Uruguay.

- Provided SRE services for small clients
- Deployed responsive JS/PHP web application for São Paulo metro ticketing with PavPal integration
- Managed virtual infrastructure in AWS
- Set up Jira Service Desk and Docker-based developer environments
- Demonstrated Redmine and ELK stack to clients
- Delivered HDInsight PaaS presentation using Microsoft Azure
- Integrated Tableau Desktop with Hortonworks Hadoop via JDBC/ODBC for a major telecom
- Functioned as Level 3 System Administrator for Netgate Uruguay's email and hosting services

## Developer

#### 2020 **Python Full Stack Developer**, *BairesDev*, Remote / Montevideo, Uruguay.

- Ported Data Science algorithms to production using GCP Cloud Functions and Pandas
- Provided SRE support and deployed JS/PHP web apps
- Collaborated on biomedical IoT projects at BioIntellisense
- Modified Java libraries for expanded data inputs
- Built data pipelines with Protocol Buffers and Bigtable
- Wrote integration tests using unittest and pytest
- Followed Agile practices using Jira and Bitbucket

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## 2014–2019 Technical Leader, Boxes, Montevideo, Uruguay.

- Co-developed interactive vending machines with engineers and suppliers
- Authored technical documentation for grant applications
- Led UI/UX redesign using Python/Kivy
- Designed Raspberry Pi shields with Arduino Leonardo
- Built JavaScript/Java admin console with Bootstrap; deployed on AWS via Gradle
- Developed Python clients for OpenVPN-based M2M communication
- Replaced PyGame with Kivy to improve embedded UI performance
- Received ANII award for innovation
- Provided industrial-grade Linux machines to replace proprietary PLC systems
- Built hybrid GPRS/Zigbee network using Techbase IMod devices

## Site Operations

## 2014–2017 Data Center Technical Leader, IBM Uruguay, Montevideo, Uruguay.

- Managed assets, service contracts, and compliance (RL2/RL3) for IBM data centers
- Planned and executed maintenance: UPS, generators, HVAC, BMS, security systems
- Reported site status to global/regional teams; led equipment integration and relocations

#### 2007–2014 Process Control Engineer, ISUSA, Ciudad del Plata San José, Uruguay.

- Designed and maintained control systems for sulfuric acid and fertilizer plants
- Implemented automation and reporting via SCADA, VBScript, and Windows servers
- Upgraded WAN, installed radio links, and implemented video-over-MPLS communications

#### Other

#### 2006 Hardware repair and delivery center, Municipality, Montevideo, Uruguay.

 I learned how to repair computers and peripherals and also how manage hardware for building with hundreds of employees at Municipality of Montevideo

#### 1999–2000 Minimarket asistant, Couche Tard, Montreal, Canada.

 Cleaned and replenished stock over the weekends at Couche Tard Minimarket in Montreal, Canada

## Projects

## DevOps

**DevOps Engineer**, *Freelancer at Upwork*, Montevideo, Uruguay.

- o Implemented stateless Nagios and Docker monitoring containers on AWS
- Scripted deployments with Bash; CI/CD pipelines using Docker Compose, ECS, Fargate
- Built Python tools for inventory conversion and config management

#### **SRE Engineer**, *Antel ASVAC*, Montevideo, Uruguay.

- Maintained single sign-on portal; log analysis and visualization with ELK stack
- Managed load balancers, proxies, and NFS; migrated Vera TV components to new RL3 DC

## Developer

## Python Full Stack Developer, BioIntellisense.

- Deployed Pandas-based algorithms on GCP Cloud Functions; managed Bigtable and ETL pipelines
- Developed integration tests with unittest and pytest

#### Product Developer, Antel NDG.

- Architected IaaS framework on vCloud Director; managed VM templates with Ansible
- Deployed ELK and Zabbix using Docker Swarm; configured access via Apache and pfSense

## Fullstack Developer, Boxes.

- o Adapted PyGame to Kivy for vending machine UI; redesigned Pi shield circuits
- o Created Java WebSockets IoT broker; built Bootstrap admin console via Gradle

## Education

#### Courses

- 2025 Entry-Level Security Cybrary
- 2024 Introduction to Deep Learning Udemy
- 2022 Terraform Associate Certification HashiCorp
- 2022 Terraform Beginner to Advanced Udemy
- o 2020 Amazon Elastic Kubernetes Service Workshop Online
- o 2019 Use Python to Access Web Data Online
- 2019 TEFL English Certificate Thresholds Institute, Prague, Czech Republic
- 2018 Agile Scrum Master Introduction Course XN, Montevideo, Uruguay
- o 2017 Introduction to Tableau Deloitte, Montevideo, Uruguay
- 2017 Azure Cloud Specialist + Open Source Online
- 2017 AWS Solutions Architect Online
- o 2015 Introduction to Agile IBM, Montevideo, Uruguay

#### Academic Studies

- 2009–2012 Impedance Spectroscopy Specialization Facultad de Ciencias, UDELAR, Montevideo, Uruguay.
  - Field of research: impedance spectroscopy over modified electrodes for specific polysaccharide detection.
- 2001–2008 Electrical Engineering Facultad de Ingeniería, UDELAR, Montevideo, Uruguay.
  - Thesis: Modbus wireless communication hardware for home and industrial automation.
- 1999–2001 Pure and Applied Science Vanier College, Montreal, Canada.

## Public Speaking

**Virtual Infrastructure Best Practices**, *Antel ASVAC*, *HG*, Montevideo, Uruguay.

Presented a multilayer reference architecture to internal teams and clients at HG (2019).

**Open Source and Big Data on Azure**, *Sinergia Tech*, Montevideo, Uruguay. Delivered a presentation at Sinergia Tech (2017) in collaboration with Microsoft Uruguay and Netlabs.

Study of Metal-Protein Interactions Using Impedance Spectroscopy, *Instituto de Higiene, UDELAR*, Montevideo, Uruguay.

Presented scientific research at CSIC and Instituto de Higiene, UDELAR (2010, 2011).

**Voice Enhancement Using Artificial Neural Networks**, *Facultad de Ciencias*, *UDELAR*, Montevideo, Uruguay.

Presented as part of a specialization course in neural networks, Facultad de Ciencias, UDELAR (2009).

## Languages

Spanish (Native), English (Advanced), Portuguese (Basic)

## Interests

Music, Aikido, Surf, Food and Nutrition, History