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
- CI/CD with GitHub Actions
- OpenSearch for observability

Other tools

Operating Systems.
- Ubuntu, CentOS, SUSE, RedHat, Debian, Windows

Clouds.
- AWS, Azure, vSphere, vCloud Director

Configuration Management.
- Terraform, Ansible, AWS SSM Inventory

Automation.
- Kubernetes, Docker, Git, GitHub Actions, Jenkins, Bitbucket Pipelines

Databases.
- MySQL, MariaDB, SQLite, InfluxDB, PostgreSQL, DynamoDB

BigData.
- BigTable, Hive, Elasticsearch, Databricks, Superset, Metabase

Programming Languages.
- Python, TypeScript, C, Assembler, Bash, Java, JavaScript, LaTeX, R

Data Analysis.
- R, Elasticsearch, Kibana, Python, MATLAB, Tableau, Excel

Product Development.
- Agile, Jira, Project Requirements, Planning and Management

Software Frameworks.
○ Spring Boot, Flask, JBoss, Laravel, Kivy, Bootstrap, Express

Other Libraries.
○ 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 Jira

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
- Deployed monitoring tools: Zabbix, Elasticsearch, Kibana, Grafana
- 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 PayPal 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

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.
- 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.*
- Adapted PyGame to Kivy for vending machine UI; redesigned Pi shield circuits
- 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
- 2020 Amazon Elastic Kubernetes Service Workshop – Online
- 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
- 2017 Introduction to Tableau – Deloitte, Montevideo, Uruguay
- 2017 Azure Cloud Specialist + Open Source – Online
- 2017 AWS Solutions Architect – Online
- 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