ANA PEDRA

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○ https://github.com/redjules

Skills

- Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, PySpark) | R | SQL | Tableau | Power BI | JavaScript | TypeScript | React | Node.js | Java | Spring Boot | Helm | Argo CD | Bash | Linux | Kubernetes | Istio | OpenShift | Docker | Jenkins | Terraform | Ansible | Prometheus | Grafana | Loki | Git | GitHub | Gitlab | RHEL | Podman | Go | RabbitMQ | Kafka | Web Sockets | OpenTelemetry
- AWS | Azure | GCP | Cloud Computing | CI/CD | GitHub Actions | Jira | OpenStack | ElasticSearch | Databricks | Zabbix | Splunk | Kibana
- Statistics | Quantitative Analysis | Security | Machine Learning | Deep Learning | Front-End | Back-End | Full-Stack | DevOps
- English, German, French, Spanish, Catalan – *All professional proficiency or above*

Projects

All in my website anapedra.tech:
- DevOps Projects: Monitoring on K8s & GCP: Prometheus and Grafana; Automate Kubernetes Deployment with Ansible, Develop CI/CD pipelines using Git, Jenkins, Ansible, Maven, Docker and Kubernetes on AWS; DevOps Project with GitHub, Jenkins, Terraform, Helm, Amazon EKS; Real-Time CI/CD Pipeline From Scratch with Jenkins; EC2 instance create/config with Terraform & Ansible; Ansible & Docker: Run Docker applications; Voting application using Docker; GitOps: Deploy Apps with K8s, Helm & ArgoCD; Create an EC2 instance using Python Boto3; Manage Spotify using Terraform; Deploy A 2-tier Application On AWS Using Terraform; Build and Deploy a Gitlab CI/CD Pipeline for a Java API using AWS Beanstalk; Deploy Nodejs with Ansible; Ansible Real Time project: Monitoring setup
- Catalyst - SwissHacks 2024 Double Winner (Unique/ Microsoft Challenge and Overall Hackathon)
- ReNew – 1st award Winner at Climathon 2023
- Cover with Care: Empathy training for Customer Agents using AI - Finalist of Hack Zurich 2023

Education

- **DevOps Bootcamp & DevSecOps Bootcamp – TechWorld with Nana** – in progress (finishing end Oct 2024 & Nov 2024, respectively)
- **Data Science and Machine Learning: Making Data Driven Decisions – MIT** – Completed in July 2024
- **Postgraduate courses in Data Science and Data Engineering - Purdue University** - Completed in Jan 2023 and Jun 2023, respectively
- **Postgraduate course in Lean Six Sigma Black Belt - Polytechnic University of Catalonia (UPC)** - Completed in Oct 2015
- **BSc + MSc in Industrial Engineering/ Mechanical Engineering - Polytechnic University of Catalonia (UPC)** - Completed in Jun 2014
- **Courses:** Red Hat OpenShift Administration I, Red Hat OpenShift Administration II, Splunk for Security Analytics and Monitoring, Prometheus Alerting and Monitoring, Grafana, Data Visualization with Kibana, Managing Kubernetes Applications with Helm, Learning Docker, Argo CD and GitOps from zero to hero, Elasticsearch 8 and the Elastic Stack: In Depth and Hands On (with Elasticsearch, Kibana, Logstash, & Beats), Gitlab CI – A complete Hands-On for CI/CD Pipelines & DevOps, Managing Kubernetes Applications with Helm
- **Cloud certifications:** RHCSA (Red Hat Certified System Administrator), RHCE (Red Hat Certified Engineer - preparing), Red Hat Certified Specialist in OpenShift Administration (preparing), SC104 Developing Helm Charts, Splunk Core Certified Power User, CKA (Certified Kubernetes Administrator), CKAD (Certified Kubernetes Application Developer), PCA (Prometheus Certified Associate), CAPA (Certified Argo Project Associate), HashiCorp Terraform Associate, Elastic Certified Engineer (preparing), Google Cloud Associate Cloud Engineer, Google Cloud Professional Cloud Architect, Google Cloud Professional DevOps Engineer, Azure DevOps Engineer AZ-400, Azure Administrator Associate AZ-104, AWS Developer Associate, AWS DevOps Engineer, CompTIA Sec +, CompTIA Network +

Experience

Cloud DevOps Engineer   Spitch   *Zurich, Switzerland*   **10/2024 – Current**

- Automate deployment pipelines and ensure Continuous Integration/Continuous Deployment (CI/CD) processes are optimized.
- Monitor and manage infrastructure performance, ensuring scalability, availability, and reliability of production environments.
- Implement and manage cloud-based infrastructure (e.g., AWS, Azure, Google Cloud) using Infrastructure as Code (IaC) practices.
- Test, validate, and ensure the stability of new software versions and feature releases.
- Optimize system performance through monitoring tools and proactively address performance bottlenecks or security vulnerabilities.

- Support in containerization and orchestration efforts using tools like Docker, Podman and Kubernetes to ensure efficient application deployment and scaling.
- Communicate clearly and effectively with customers and stakeholders to understand and address their technical issues.
- Gather, analyze, and document technical details to diagnose, troubleshoot, and resolve problems efficiently.
- Perform regular software patching, updates, and version upgrades to maintain system stability and security.
- Provide in-depth technical assistance to customers, guiding them through intricate technical challenges and system configurations.
- Prepare and maintain detailed technical documentation for projects, including architecture diagrams, workflows, and troubleshooting guides.

Cloud DevOps Engineer/ SRE   Swisscom   *Zurich, Switzerland*   **03/2024 – 09/2024**

- Linux server administration, performance tuning, security configurations
- Automate repetitive tasks with either Ansible or Bash scripts.
- Set up an AWS EKS cluster with Terraform to monitor a pod with Prometheus and Grafana. Develop dashboards to track different metrics.
- Build a CI/CD pipeline to automate application deployment using Kubernetes, Prometheus and Grafana
- Set up and customize Kibana dashboards with Elastic agent for real-time data visualization and insights, enhancing decision-making and operational awareness
- Incident Management: Respond to service outages and other issues. Develop automated tools and processes to improve incident response and recovery. Develop and maintain automation scripts using tools like Ansible, Terraform, or similar, to streamline OpenStack deployments and management tasks
- Configure, and manage OpenStack services (e.g., Nova, Neutron, Cinder, Swift, Keystone) in a production environment
- Oversee the day-to-day operations of the OpenStack environment, including monitoring, troubleshooting, and ensuring high availability and performance. Provide ongoing support, including upgrades, patches, and migrations as needed
- Create and maintain detailed documentation of the OpenStack, Elastic, Prometheus and Grafana environments, including configurations, processes, and troubleshooting steps

Senior Manufacturing Engineer   Abbott   *Zurich, Switzerland*   **09/2020 – 12/2023**

- Led the whole supplier audit process from the audit plan to the final audit report.
- Led validation activities for different company products
- Owned and investigated multiple NCs (Non-conformities), CAPAs (Corrective and Preventive Actions) and COs (Change Orders)

Process Engineer   Johnson & Johnson/ Jabil *Hägendorf, Switzerland*   **06/2019 – 08/2020**

- Owned and investigated multiple NCs (Non-Conformities), CAPAs (Corrective and Preventive Actions) and Audit Observations.
- Supported validation activities and the "Freespace Balsthal" project performing IQs of the affected machines
- SME in audits in Risk Management

Complaint Manager/ QA Specialist   Grifols   *Fribourg, Switzerland*   **01/2018 - 05/2019**

- Led the whole complaint and inquiry handling process from reception to final response. This includes product complaint investigations and ensuring that investigation action plans and final investigation summaries are accurate, include appropriate corrective actions
- SME in Complaint Management and Risk Management in external audits (FDA, TÜV SÜD)

Supplier Quality Engineer   Johnson & Johnson   *Zuchwil, Switzerland*   **10/2015 - 12/2017**

- Led the ASL (Approved Supplier List) Remediation Project
- Co-managed all SQA/SCA for Synthes EU Suppliers
- Owned/ supported NCs (non-conformities), CAPAs (Corrective and Preventive Actions) and internal/external audits

Others

- **Encore Silver Award**: Won the award for my contribution to the J&J's Raw Material project at Johnson & Johnson **(03/2017)**
- **Certificates**: PMP certified (PMI), Boat license (PER), ISO 13485:2016 Lead Auditor (IRCA), Goethe B2 German, Driving license