

ANA PEDRA

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Skills

- Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, PySpark) | R | SQL | Tableau | PowerBI | JSM| React | Node | Snowflake | Helm | TCP/IP, SSL/TLS/HTTPS | Bash | Linux | Kubernetes | Docker | Jenkins | Terraform | Ansible | Prometheus | Grafana
- AWS | Azure | GCP | Cloud Computing | CI/CD |GitHub Actions | Jira | OpenStack | Elasticsearch | Databricks | Zabbix | Splunk | OpenShift
- 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 Project: Develop CI/CD pipelines using Git, Jenkins, Ansible, Maven, Docker and Kubernetes on AWS; DevOps Project with GitHub, Jenkins, Terraform, Helm, Amazon EKS; Ansible & Docker: Run Docker applications; Collect & Expose Metrics with Prometheus; Voting application using Docker; Automate Kubernetes Deployment; Log analyzer with Splunk; Web App in AKS
- 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 Aug 2024 & Oct 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), Splunk Core Certified Power User, CKA (Certified Kubernetes Administrator), CKAD (Certified Kubernetes Application Developer), PCA (Prometheus Certified Associate), HashiCorp Terraform Associate, Elastic Certified Engineer (preparing), Azure DevOps Engineer AZ-400, Azure Administrator Associate AZ-104, AWS Developer Associate, AWS DevOps Engineer, Google Cloud Associate Cloud Engineer, Google Cloud Professional Cloud Architect, Google Cloud Professional DevOps Engineer, CompTIA Sec +, CompTIA Network +, Power BI PL-300

Experience

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

- 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
- Design and implement log pipelines using Logstash and Beats and create complex queries and visualizations in Kibana
- Manage Elasticsearch indices, including creating index patterns, optimizing queries, and implementing retention policies for efficient log data storage and monitoring

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- 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