Nicola Marvulli Site Reliability Engineer

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in https://linkedin.com/in/nicola-marvulli-904270136   ⦿ https://github.com/n1CkS4x0

Professional Experience

Agile Lab

DevOps & Site Reliability Engineer   10/2022 │ Rome, Italy
As a consultant for the Presidency of the Council of Ministers of the Italian Government. My key
contributions include:
• **Designed and deployed a cloud-native platform** integrating HashiCorp Vault, Cert-Manager, and a full Observability stack
(OpenTelemetry, Prometheus, Grafana, Jaeger, ELK) — improving visibility and reliability for 50+ engineers.
• **Led the migration of a 2PB data ecosystem from Cloudera and VMware Tanzu Kubernetes Grid to a complete on-premise
stack with SUSE Rancher and VastData**, enhancing scalability and reducing infrastructure costs by 30%.
• **Built CI/CD pipelines (Jenkins, GitLab CI, Terraform) enabling 20+ monthly releases** across Java, Python, and Scala
microservices with automated artifact versioning, reducing deployment time by 75%.
• **Architected a disaster recovery framework** for Kubernetes using Velero, MinIO, and Veeam, automating backups and ensuring
high availability.
• **Delivered 24/7 on-call support and incident response**, reducing mean-time-to-recovery (MTTR) within strict SLA targets.
• **Developed Apache Airflow DAGs** to orchestrate data ingestion and model training pipelines, integrating REST APIs for dynamic
configuration and job monitoring, reducing manual intervention by 80%.
• **Mentored junior engineers in automation, reliability, and system design**, improving team performance and onboarding efficiency.

Big Data Architect Intern   04/2022 – 09/2022 │ Turin, Italy
During the internship, research was conducted for a master's thesis:
• **Designed a Big Data AI pipeline** reducing cloud service costs by optimizing distributed processing and ML workflows.
• **Integrated Apache Spark, Ray on Kubernetes, and MLflow**, accelerating model training and tracking metrics for reproducible
experiments.
• **Automated infrastructure provisioning with Terraform and GitOps**, reducing deployment time by 60%.
• **Implemented CloudWatch monitoring for real-time performance** insights and resource optimization.

Education

Master's Degree in Computer Science (curriculum Artificial Intelligence)   10/2020 – 12/2022 │ Bari, Italy
University of Bari Aldo Moro
Score: 110/110 cum laude

Bachelor' s Degree in Computer Science (curriculum Software Engineering)   10/2017 – 10/2020 │ Bari, Italia
University of Bari Aldo Moro

Skills

Programming Languages: Java, Scala, Python, C++, Rust, Go, Bash

DevOps/SRE Technologies:: Docker, Kubernetes, VMware Tanzu Kubernetes Grid, SUSE Rancher, Terraform, Helm, Jenkins,
Gitlab CI, HashiCorp Vault, Cert-manager, Prometheus, Grafana, Alertmanager, Jaeger, Elasticsearch, Kibana, OpenTelemetry, KEDA,
Kyverno, Nginx, Velero, Istio, ArgoCD

Big Data: Cloudera Data Platform, VastData   **Cloud Providers:** Amazon Web Services, Google Cloud Platform

Certifications

Kubestronaut   CKA: Certified Kubernetes Administrator   CKAD: Certified Kubernetes Application Developer

CKS: Certified Kubernetes Security Specialist   KCNA: Kubernetes and Cloud Native Associate

KCSA: Kubernetes and Cloud Native Security Associate   VAST Fundamentals   Operating The VAST Management System

CyberChallengeIT

Publications

Real-Time Age Estimation from Facial Images Using YOLO and EfficientNet   10/2021

Balancing Data Within Incremental Semi-supervised Fuzzy Clustering for   06/2021
Credit Card Fraud Detection

Languages

Italian, English, Spanish