

ANDREI GHENEA

DevOps & Cloud Infrastructure Engineer

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PROFESSIONAL SUMMARY

DevOps and Cloud Infrastructure Engineer with over 6 years of experience architecting, automating, and scaling production-grade AWS environments and enterprise deployment pipelines. Proven track record of delivering high-availability, secure infrastructure for Tier-1 clients and highly regulated financial institutions, including Intesa Sanpaolo and BNL Bank. Expert in Infrastructure as Code (Terraform), container orchestration (Docker/EKS), and complex CI/CD design, with a deep focus on architectural reliability, zero-downtime deployments, and driving operational efficiency through code.

TECHNICAL SKILLS

Cloud Platforms:	AWS (VPC, EC2, RDS, S3, IAM, CloudWatch, Lambda, EKS, Multi-Account Governance)
Infra as Code:	Terraform, HCL, Ansible, CloudFormation, Reusable Modules
CI/CD & Orchestration:	Jenkins, GitLab CI, GitHub Actions, Docker, Kubernetes, Amazon EKS
Automation & Scripts:	Python, Bash, PowerShell, Linux Systems (RHEL, Ubuntu), Automation Frameworks
Networking & Security:	Site-to-Site IPsec VPNs, SSL VPNs, Cloud Routing, Firewalls, DNS, IAM Hardening
Databases:	Oracle, MySQL, PostgreSQL, SQL Performance Tuning, High Availability (HA) Failover
Programming:	Java, C#, SQL

PROFESSIONAL EXPERIENCE

Systems & DevOps Engineer

Digitronica.it

2024 – Present

Verona, Italy

Infrastructure Consultant for Tier-1 enterprises including Ferrari, BNL Group, and Verona Airport

- **Architected and managed** multi-account AWS infrastructure utilizing AWS Organizations, VPC peering, and IAM Identity Center, ensuring secure isolation and maintaining **99.9% availability** for critical production workloads.
- **Engineered scalable Infrastructure as Code (IaC)** using Terraform, designing reusable modules that standardized and accelerated environment provisioning across multiple client projects.
- **Eliminated 40% of manual operational overhead** by developing custom Python and Bash automation frameworks for continuous monitoring, backup validation, and self-healing infrastructure tasks.
- **Designed and implemented secure hybrid-cloud networking architecture**, configuring resilient site-to-site IPsec VPNs and SSL VPNs to connect on-premise enterprise systems safely to AWS.
- **Led technical documentation and disaster recovery mapping** for enterprise environments, drastically reducing Mean Time to Resolution (MTTR) during incident responses.

DevOps & QA Automation Engineer

Samsung Electronics (Akodis)

2023 – 2024

Verona/Milan, Italy

- **Bridged the gap between Development and Operations** by integrating automated regression and data-validation suites directly into Jenkins and GitHub Actions CI/CD pipelines, accelerating release velocity.
- **Designed complex backend validation scripts** utilizing advanced SQL to audit data integrity, proactively identifying performance bottlenecks and architectural defects before production deployment.
- **Optimized testing environments** by containerizing testing dependencies with Docker, ensuring environment parity between development, staging, and production environments.
- **Collaborated on release readiness frameworks**, providing actionable engineering insights to development teams that improved overall deployment stability and system reliability.

Functional Analyst & Deployment Specialist

Intesa Sanpaolo (Akodis)

2019 – 2023

Verona Area, Italy

- **Orchestrated end-to-end deployment workflows** for core banking applications using Jenkins CI/CD pipelines, ensuring strict adherence to banking compliance and zero-downtime release strategies.
- **Managed high-availability production database operations** (Oracle/SQL), leading critical migrations, data schema updates, and performance tuning for high-transaction banking systems.
- **Automated environment provisioning and pre-deployment configuration checks**, drastically reducing delivery friction and cutting feature time-to-market.
- **Served as the technical liaison** coordinating between Dev, Operations, and Business stakeholders to manage controlled financial software rollouts, resolve live deployment incidents, and maintain service continuity.
- **Ensured all major deployments** followed strict banking security frameworks, compliance standards, and audit-ready data preservation rules.

CORE ARCHITECTURAL IMPACT

- **Cloud Enterprise Scale:** Designed and sustained multi-account AWS environments handling critical data paths for Tier-1 automotive and financial enterprises.
- **Automation-First Engineering:** Saved hundreds of collective engineering hours annually across roles by prioritizing Python, Bash, and IaC automation over manual infrastructure interventions.

- **Regulated Environments:** Successfully navigated strict financial-services compliance, zero-trust security frameworks, and audit-ready data retention rules (Intesa Sanpaolo & BNL).

EDUCATION

B.Sc. in Computer Science

Università degli Studi di Verona • 2018 – 2022

Informatics Diploma

Finance and Banking College of Chisinau • 2014 – 2018

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

Kubernetes Fundamentals

Database Engineering Fundamentals (Udemy)

LANGUAGES

Romanian: Native **Russian:** C2 **English:** C1 **Italian:** C1 **French:** B1