Andrea De Tomasi

Cloud Architect & DevOps Engineer AWS · Kubernetes · Terraform · FinOps

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Certifications

CKA: Certified Kubernetes Administrator
October 2025
Linux Foundation

AWS Certified Solutions Architect - Professional
In progress
AWS

OCI Architect Associate
April 2024
Oracle

Cisco CCNA Routing and Switching
CISCO

IELTS Academy English C1

Skills

- Cloud: AWS, OCI
- Containers: Kubernetes, ECS, EKS
- IaC: Terraform, AWS CDK, Ansible
- CI/CD: GitLab CI
- Observability: Grafana, CloudWatch, Zabbix
- Programming: TypeScript, Python
- AI: LangChain, RAG, OpenAI-compatible APIs

About Me

Cloud Architect and DevOps Engineer focused on scalable, secure, and easily maintainable infrastructures. Curious and always seeking opportunities to learn, I enjoy transforming complex problems into simple solutions, following the KISS principle, "Keep It Simple, Stupid."

In my free time, I enjoy practicing sports and spending time in nature, whether it's going for a walk or flying paragliders.

Experience

Freelance
Cloud Architecture Consultant   January 2025 - Present
AWS · Terraform · Kubernetes · FinOps · Security

Design and implementation of scalable cloud infrastructures, with a focus on cost optimization, automation, and data security.

- Achieved AWS cost reductions of 30–50% for customers through strategic FinOps implementations, autoscaling policies, and migrations.
- Conducted cloud architecture security audits, identifying potential vulnerabilities.
- Designed Cloud solutions integrated with development teams, using AWS managed services with Terraform and DevOps practices for automated deployments.
- Implemented infrastructure monitoring systems, preventing potential downtime of critical services through alerting and dashboards.

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Icaro   Remote
Cloud Architect   January 2025 - January 2026
EC2 · ECS · RDS · Networking · IoT MQTT · Aurora · Athena · Firehose · Terraform

Design and implementation of Cloud infrastructure for an internal product

- IoT Infrastructure: setup and configuration of AWS IoT Core, MQTT, Timestream, Firehose to receive data from IoT devices, perform batching and compression.
- Large Scale Query: setup for visualizing IoT device metrics via Grafana, using AWS Athena for time-series data queries on S3.
- Edge Device: configuration of IoT devices using Node-Red for in-place processing, before forwarding data to AWS.
- Cloud Infrastructure: Designed and implemented cloud infrastructure on AWS for an internal product. Networking, Database, Security, Computing, ECS, SSL Certificates, Domains, Load Balancing, RBAC.
- Infrastructure as Code (IaC) with Terraform: Managed the entire AWS infrastructure using Terraform.
- CI/CD Pipeline Development: Developed CI/CD pipelines on GitLab to automate testing, building, and deployment.
- Autoscaling, Backup and Monitoring: Implemented autoscaling strategies, backup solutions, and monitoring/alerting systems.
- AWS RDS and Database Management: Designed and managed AWS RDS instances

Technology Reply
Cloud & AI Engineer   January 2024 - January 2025
AWS · OCI · Kubernetes · Terraform · RAG · LangChain · OpenAI APIs

- Oracle Cloud Infrastructure: Management of Oracle Cloud environments with Terraform and Kubernetes, across four environments between production and development.
- GitLab & CI/CD: Development of pipelines for automatic deployment of infrastructures and applications, configuration and management of projects and permissions
- Infrastructure Observability: Setup of an observability project for an infrastructure of ~1,000 servers with EasyVista Observe and Zabbix.
- Log Management: Evaluation of log management solutions (Datadog, Grafana, Elastic) for centralized monitoring and analysis.
- RAG Chains: Development of RAG chains with LangChain and OpenAI or Transformer backends, integrating internal documentation and email history.
- Q/A Bot: Development of a Q/A bot based on RAG on customer incident history, with cloud service on GPU and OpenAI-compatible APIs for greater privacy and performance.

2hire
Backend Developer / Cloud Engineer   March 2023 - January 2024
Typescript · CDK · AWS · Timestream · Grafana · Prometheus

- AWS Infrastructure: Management of AWS infrastructure with CDK and DevOps practices (ECS, EC2, S3, Timestream).
- Backend TypeScript: Development and maintenance of backend services in TypeScript.
- IoT & MQTT: Management of MQTT data reception from edge devices, processing via gateway, and forwarding to AWS Timestream. Data consumption from backend services for charts and real-time visualization.
- Deployment and Monitoring: Setup of deployment pipelines and application monitoring with Grafana, AWS CloudWatch, and Prometheus
- Agile: Working in an Agile context with Git, Jira, and Kanban, actively participating in Scrum ceremonies.
- Log Management: Contribution to a log compression system on Google Cloud Buckets and on-the-fly decompression via Elastic.

Education

Technische Universität Berlin   Master's Thesis
Blockchain Prototyping   2022

Complete design and implementation from scratch of a Layer 2 using zero-knowledge rollups for Tezos blockchain.

Wrote and deployed the program and smart contracts to manage and verify rollups, achieving a 99% reduction in L1 transaction costs.

Technische Universität Berlin   Master's Degree
Cloud and Network Infrastructure   2022 - 2023

- Cloud computing (Flink, Hadoop, OpenStack, Kubernetes, Ansible, AWS)
- Blockchain prototyping on Tezos Layer 2 Blockchain

Université de Rennes 1   Master's Degree
Cloud and Network Infrastructure   2021 - 2022

- Internet Networks
- Microservices and container technologies
- Multiprocessor Coordination
- Performance evaluation models
- Distributed architectures
- Distributed services
- Distributed and concurrent programming with OpenMP, Open MPI and CUDA

Università di Padova   Bachelor's Degree
Computer Science