



Andrea De Tomasi

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ABOUT ME

I love learning new technologies and setting challenges that make my work exciting and valuable. I enjoy organizing and scheduling tasks, both at work and in everyday life, to use my time effectively. Working in a team is also very rewarding for me because I like seeing how everyone's efforts combine to achieve a final goal.

WORK EXPERIENCE

Freelance

Cloud Architecture Consultant

[Mar 2025 – Current]

- **AWS Cost Optimization and Security Improvements:** Helped teams reduce AWS infrastructure costs and improve their security through FinOps and DevOps best practices.
- **Cloud Architecture Audits and Reporting:** Performed cloud audits and delivered actionable reports addressing architecture, cost efficiency, automation gaps, and compliance risks.
- **Terraform-based Cloud Infrastructure Design:** Designed scalable, secure, and maintainable AWS environments using Terraform and Git-based workflows tailored to client-specific requirements.
- **CI/CD Pipeline Implementation and Automation:** Supported teams in implementing CI/CD pipelines using GitHub Actions and AWS CodePipeline to streamline deployment processes.
- **Secrets Management and Monitoring Strategies:** Assisted in the implementation of secrets management and infrastructure observability using AWS Secrets Manager, CloudWatch, and Grafana.

Icaro Tech

Cloud Architect and DevOps Engineer

[Jan 2025 – Current]

Architecting and implementing the Cloud infrastructure for an internal product.

- **Cloud Infrastructure Architecture & Implementation:** Designed and implemented AWS cloud infrastructure for an internal product
- **Infrastructure as Code (IaC) with Terraform:** Managed the entire AWS infrastructure using Terraform, including roles, account management, ECS clusters, and networking configurations.
- **Multi-Account AWS Management:** Automated AWS multi-account setups and role-based access control using Terraform for streamlined governance.
- **CI/CD Pipeline Development:** Developed and maintained GitLab CI/CD pipelines to automate testing, building, and deployments.
- **Containerization & Orchestration:** Dockerized backend and frontend applications, optimizing deployment and runtime efficiency.
- **Autoscaling, Backup & Monitoring:** Implemented auto-scaling strategies, backup solutions, and monitoring.
- **AWS RDS & Database Management:** Designed and managed AWS RDS instances.

Technology Reply – Padua, Italy

City: Padua | Country: Italy

Cloud Infrastructure Consultant

[Jan 2024 – Dec 2024]

- **Oracle Cloud Infrastructure:** Managed and designed Oracle Cloud environments and Networking using Terraform
- **Kubernetes container orchestration:** Managed kubernetes clusters using multiple stages.
- **GitLab CI/CD Pipelines Development and Maintenance:** Developed and maintained GitLab CI/CD pipelines for automated infrastructure and application deployments for reducing the need for manual intervention.
- **GitLab Projects and Group Management:** Set up and managed GitLab projects and groups, configured access controls and permissions.
- **Infrastructure and APM Observability:** Led the study and setup of an observability project for a customer's infrastructure, which included 600 servers. Utilized Zabbix, DataDog and Grafana to monitor and analyze metrics, providing visibility into system performance and health.

Technology Reply – Padua, Italy

City: Padua | Country: Italy

AI Engineer

[Mar 2024 – Dec 2024]

- **RAG Chains Development:** Created Retrieval-Augmented Generation (RAG) chains using LangChain with OpenAI or a Transformer backend. This involved fetching data from internal documentation and email history between customers and the service team to enhance information retrieval and response generation.
- **Anonymization of Documentation and Emails:** Implemented Named Entity Recognition (NER) tasks to anonymize confidential information in documentation and email communications. Ensured that sensitive data was protected, enhancing compliance with data privacy regulations.
- **Q/A Bot Development Based on Customer Incident History:** Developed a Q/A bot using RAG to handle customer incident history. This included setting up a cloud service with OpenAI-compatible APIs running on GPUs to ensure enhanced confidentiality and performance. The bot efficiently resolved customer queries by leveraging historical incident data, improving customer service metrics and response times.

2hire – Rome, Italy

City: Rome | Country: Italy

Software Developer - Backend

[Mar 2023 – Jan 2024]

Carried on at a startup of 30 employees.

- **AWS Infrastructure Management IaC:** Managed AWS infrastructure using AWS Cloud Development Kit (CDK) and DevOps practices. This included provisioning and maintaining resources in AWS ECS, EC2, S3, and Timestream.
- **Backend Programming with TypeScript:** Developed and maintained backend services using TypeScript, leveraging code versioning and revisions.
- **Deployment and Monitoring:** Set up deployment pipelines and monitored applications using Grafana and AWS CloudWatch. Ensured continuous integration and delivery, addressing any performance or stability issues during or after deployments.
- **Agile Methodologies:** Worked within an Agile framework, utilizing tools such as Git, Jira, and Kanban boards to manage projects and workflows. Actively participated in sprint planning, daily stand-ups, and retrospectives to drive continuous improvement.
- **Google Cloud Buckets Log Compression:** Contributed to the setup of a system for compressing stored logs on Google Cloud Buckets and decompressing them on the fly when read through Elastic, optimizing storage costs and improving efficiency.

EDUCATION AND TRAINING

Oracle Cloud Infrastructure 2023 Certified Architect Associate

Oracle [Apr 2024]

Cisco CCNA Routing and Switching

CISCO [2018]

Website: <https://www.cisco.com/c/en/us/training-events/training-certifications/certifications/associate/ccna.html>

Master's degree in Cloud and Networks - Distributed System (second year)

Technische Universität Berlin [2022 – 2023]

City: Berlin | Country: Germany

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

Master's degree in Cloud and Networks - Distributed System (first year)

Université de Rennes 1 [2021 – 2022]

City: Rennes | Country: France

- Networks
- Multiprocessor systems
- Models for performance evaluation
- Distributed architectures
- Distributes services
- OpenMP, Open MPI and CUDA

Computer Science bachelor's degree (Italian classification L-31)

Università degli studi di Padova [2018 – 2021]

City: Padova | Country: Italy | Level in EQF: EQF level 6

Final grade: 104/110

- Operative system architecture
- Network and security
- C++ and Java Object Oriented programming
- Distributed programming
- Databases
- Web programming

EXTRA INFO

Processing of personal data

I authorise the processing of personal data contained in my Curriculum Vitae on the basis of art. 13 GDPR 679/16.