

DARIO MAZZA

Junior Cloud-Native Engineer

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EXPERIENCE

Research Assistant Intern (Erasmus+ Traineeship)

🔗 Python Go Terraform TOSCA LangChain/RAG

Jheronimus Academy of Data Science, 's-Hertogenbosch, Netherlands

📅 Feb 2025 – June 2025

- Engineered ReTOSCA, a Proof-of-Concept framework to reverse-engineer AWS Terraform configurations into TOSCA 2.0 standards, resolving mapping ambiguities via a deterministic pipeline and Retrieval-Augmented Generation (RAG).
- Implemented full TOSCA 2.0 standard support for the go-puccini open-source compiler using Go; the contribution was validated and merged into the official repository used by the global community ↗ [merged PR].
- Conducted research on Infrastructure-as-Code (IaC) interoperability, bridging proprietary configurations with open standards through Python and Go automation.

EDUCATION

Master's Degree in Computer Science

✓ Final Grade: 110/110 with honors

Università degli Studi di Salerno

📅 Dec 2022 - Oct 2025

- Major in Software Engineering & IT Management

Bachelor's degree in Computer Science

✓ Final Grade: 110/110 with honors

Università degli Studi di Salerno

📅 Sept 2019 - Dec 2022

- Apple Foundation Program: Secured admission (ranked Top 10 among 65+ applicants) to develop an AR iOS game using Swift and ARKit within a 4-week intensive framework.

PROJECTS

Kubernetes Homelab & GitOps Platform

🔗 Kubernetes Flux CD Ansible Cilium (eBPF) SOPS Prometheus Linux

Cloud Native Infrastructure & Automation

↗ [code]

- Architected a declarative bare-metal cluster by implementing Ansible for automated OS hardening and K3s provisioning, establishing a production-grade environment that eliminates configuration drift.
- Enforced a strict GitOps workflow via Flux to automate reconciliation and deployment, integrating SOPS for encrypted secret management and Cilium for high-performance eBPF networking.

Apache Commons Validator - DevOps & Code Quality

🔗 Docker CI/CD SonarCloud Java EcoCode OWASP

Software Dependability & CI/CD Optimization

↗ [code | docker image | report | presentation]

- Modernized the CI/CD pipeline by integrating GitHub Actions and Docker, establishing consistent build environments that streamlined the testing workflow across multiple platforms.
- Enhanced software dependability by orchestrating static analysis via SonarCloud and EcoCode, resulting in a 13% increase in test coverage and measurable improvements in maintainability and energy efficiency.

CodeSmile - Microservices & ML Architecture

🔗 Python Docker FastAPI Local LLM (Qwen2.5) Microservices CI/CD

AI Engineering & Distributed Systems

↗ [code | presentation]

- Contributed to the official PhD research repository (linked to a published paper) by implementing local fine-tuning of Qwen2.5-Coder to detect ML-specific code smells, integrated within a Dockerized FastAPI microservices architecture.
- Orchestrated a robust CI pipeline integrating Unit, Integration, and System testing, which skyrocketed test coverage from 0% to 82%, ensuring reliable deployments for the ML-driven features.

CERTIFICATIONS

Red Hat Enterprise Linux Automation with Ansible

✿ RH294 - RHA (Ver. 9.0)

Red Hat

📅 Jan 2026

Getting Started with Linux Fundamentals

✿ RH104 - RHA (Ver. 9.1)

Red Hat

📅 Nov 2025

SKILLS

Programming

Python, Go, Java, C, Bash, TypeScript

Cloud & DevOps

Kubernetes, Ansible, Docker, Flux CD, Helm

Web & Frameworks

React, Next.js, Astro, FastAPI, Node.js

Data & Tools

MySQL, MongoDB, Prometheus, Git, GitHub Actions, SonarCloud

Languages

Italian (Native), English (B2 Level)