



Mattia Rengo

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● ABOUT ME

DevSecOps Engineer in R&D, Eustema - Lutech group. Fully remote since April 2023. I build secure cloud platforms and AI infrastructure, reducing manual work and aiming to create technology that helps people.

● WORK EXPERIENCE

DEVSECOPS ENGINEER – EUSTEMA S.P.A. – 07/2025 – Current – ITALY

- Built GitLab CI templates and Argo CD GitOps promotion, reusing one image across environments with manual production approval.
- Integrated SBOMs, vulnerability scanning, provenance and Cosign signatures, checking the digest before promotion.
- Migrated MLflow preserving data and endpoints. Operated LLM serving with KubeAI, vLLM, persistent storage and GPUs.
- Developed FastAPI microservices and configuration, audit and authorization libraries with probes, JSON logging and tracing. Fixed Kubernetes shutdown so shutdown hooks completed.
- Recovered 20% of storage through assessment and PVC cleanup. Created templates and workshops enabling another team to run the pipeline independently.
- Designed a CRD and a Kopf operator for AI agents: 32 offline tests and eight test-cluster checks.

DEVOPS DEVELOPER – EUSTEMA S.P.A. – 04/2024 – 07/2025 – ITALY

- Built Coder remote workspaces on Kubernetes using Terraform templates, Docker and GPUs, and onboarded developers.
- Optimized a 130-document ingestion test from 4h06 to 2h43 with two replicas.
- Rewrote GitLab export automation: 149 projects exported to NFS. Managed Kubernetes services, backups and cloud-based test releases.

SOFTWARE DEVELOPER – EUSTEMA S.P.A. – 04/2023 – 04/2024 – ITALY

- Containerized services and prepared Kubernetes manifests to move an AI platform from research to production on GKE.
- Ran Bandit SAST and load tests, contributing to the diagnosis of ingress, probe and service availability issues.

COMPANY INTERNSHIP AND EXPERIMENTAL CLOUD BURSTING THESIS – EUSTEMA S.P.A. – 10/2022 – 04/2023 – ITALY

- Developed a K3s cloud bursting proof of concept across two OpenStack environments, with containerized services and load tests based on Azure Functions traces.

● EDUCATION AND TRAINING

2023

MSC IN COMPUTER AND ROBOTICS ENGINEERING University of Perugia

Data Science curriculum. Grade: 110/110 cum laude. Thesis on Kubernetes-based cloud bursting.

Grade: 99/110. Thesis on data center network architecture.

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Publications

First author of the SCARF RAG evaluation technical report (arXiv, 2025). Coauthor of a Kubernetes cloud bursting paper (IEEE OJCOMS, 2024).
[arXiv 2504.07803](#) | [IEEE DOI](#)

Open source contributions

Merged Coder, KubeAI and CheshireCat contributions on Helm, networking and containers. Personal Docker projects, including money4band.
[Coder #16032](#) | [KubeAI #362](#) | [CheshireCat #857](#) | [GitHub MRColorR](#)

DRIVING LICENCE

Driving Licence: B

TECHNICAL SKILLS

Areas of practice

Kubernetes and cloud: Kubernetes, GKE, AWS, Docker, Helm, Kustomize, Linux, NFS, MetalLB, NGINX Ingress, CRD, Kopf.
CI/CD and GitOps: GitLab CI, Argo CD, promotion, rollback, multi-architecture builds, Terraform for Coder workspaces.
DevSecOps: Syft, Gype, Cosign, SBOM, signatures, attestations, Bandit SAST, Keycloak, JWT, RBAC.
MLOps and LLMOps: MLflow, KubeAI, vLLM, Ollama, NVIDIA GPU, MinIO, Langfuse, RAG, DeepEval.
Backend and data: Python, FastAPI, Pydantic, Bash, MongoDB, PostgreSQL, Elasticsearch, Neo4j, NATS, Temporal.
Observability and collaboration: OpenTelemetry, JSON logging, probes, load testing, documentation, onboarding.

CERTIFICATIONS AND COURSES

Qualifications earned

Microsoft Certified Azure Fundamentals AZ-900 (2023). Huawei HCIA-Routing & Switching (2020). Cambridge First Certificate in English (2013), English C1. AI Agents Fundamentals course - Hugging Face (2025).