

DAVIDE ARCOLINI

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AI Engineer specialized in multi-agent systems with a cybersecurity research background. I designed and deployed production-ready AI solutions combining LLMs, RAG, MCP integrations, and vector databases across enterprise environments. Experienced across the full AI lifecycle, from evaluation to security, observability, and optimization.

WORK EXPERIENCE

AI Engineer

Liquid Reply IT

Dec 2023 – Present

Turin, Italy

- Designed and deployed production-ready multi-agent systems as OpenShift microservices using LangChain/LangGraph and DevSecOps practices. 10+ agents orchestration enabled users to perform root-cause analysis over heterogeneous infrastructural data, reducing RCA time by 80%+.
- Architected and implemented a multi-step agentic workflow to validate SQL release scripts across 500+ Oracle databases. Workflows pre-processed multi-file deployments (both apply and rollback) for syntax, best practices, impact, and index analysis, producing an interacting scored report for DBAs, with 30+ reports generated daily.
- Built a RAG-based vulnerability classifier capable of analyzing, evaluating, and dispatching 10k+ vulnerabilities daily to the correct office, saving 2 hours/day of manual effort.
- Engineered a natural-language infrastructure request agent with advanced RAG capabilities over custom blueprints and foundations knowledge base to automate 100% of the existing manual process.

Cybersecurity Research Intern

Liquid Reply IT

Apr 2023 – Dec 2023

Turin, Italy

- Developed production-ready API security solution adopting the Microgateway Infrastructure Pattern with Kong Gateway. Deployed and managed solutions on Kubernetes.

EDUCATION

M.Sc. in Computer Engineering – Cybersecurity

Politecnico di Torino

Oct 2021 – Dec 2023

GPA: 110/110

CyberChallenge.IT top 20 students (2021); led Challenge@PoliTo with Aruba S.p.A. on FIDO2 passwordless access; 230+ hours teaching; organized and presented IEEE-HKN tech events.

B.Sc. in Computer Engineering

Politecnico di Torino

Sep 2018 – Jun 2021

GPA: 101/110

Thesis project: “PRNGs based on Logistic Chaotic Maps and Generalized Lorentz Systems”.

CREDENTIALS & TECHNICAL PROFILE

LANGUAGES

Italian - Native • **English** - C1 Advanced (IELTS Academic 7.5)

CREDENTIALS

CyberChallenge.IT • Challenge@PoliTo • BIP CyberSec Talent Week

AI & SOFTWARE

Python, C, Kotlin, Git • LangChain, LangGraph, OpenAI API, RAG, MCP tools, LLMs, Langfuse • Oracle, MySQL, PostgreSQL • Dynatrace, Grafana, Splunk

PLATFORM & SECURITY

Docker, Kubernetes, OpenShift • DevSecOps, Cybersecurity, API Security