

Software Engineer and PhD in Distributed Systems, focused on Site Reliability Engineering and Application Performance Management. Passionate about building backend systems, managing cloud infrastructure, and automating everything in between. Currently exploring AI/LLM, fine-tuning models for domain-specific applications and deploying them at scale.

SKILLS

Languages	Python, Golang, Java, Shell, Swift, C
Infrastructure	Docker, Kubernetes, OpenShift, Proxmox, Nginx
Automation	Ansible, Terraform, Helm, GitLab CI/CD, Operators
Observability	Prometheus, Grafana, Jaeger, Istio
Data	PostgreSQL, MySQL, Redis, Kafka

EXPERIENCE

Software & AI Engineer <i>Sangiorgi SRL</i>	Jun 2021 — Nov 2025 <i>Catania, Italy</i>
<ul style="list-style-type: none">Developed microservice backends (Python, Golang) for IoT and mobile apps (WeeNet, Ruppu, YouSpeed)Managed Kubernetes deployments, GitLab CI/CD pipelines, and infrastructure with Prometheus monitoringLed COAT project (EU-funded): on-premise LLM inference with Ollama/vLLM, fine-tuned Qwen3 with Unslotr	
Visiting PhD Researcher <i>Telecom SudParis</i>	Jan 2025 — Jul 2025 <i>Palaiseau, France</i>
<ul style="list-style-type: none">Built Kubernetes Event Generator to simulate workloads, node failures, and scheduler configurationsResearch on distributed systems scheduling and resource management in cloud-native environments	
Teaching Assistant <i>University of Catania</i>	Sep 2022 — Feb 2025 <i>Italy</i>
<ul style="list-style-type: none">Object Oriented Programming: Lab sessions on Java programming, student exercises and projectsDistributed Systems and Big Data: Tutoring on distributed computing and cluster technologies	
Software Developer Intern <i>NET Service SRL</i>	Sep 2020 — Feb 2021 <i>Catania, Italy</i>
<ul style="list-style-type: none">ASP.NET Core backend development	

EDUCATION

PhD in Computer Engineering , <i>University of Catania</i> – Distributed Systems	2022 — 2025
Master's Degree in Computer Engineering , <i>University of Catania</i> – 110/110 cum laude	2018 — 2022
Bachelor's Degree in Computer Engineering , <i>University of Catania</i>	2014 — 2018

PUBLICATIONS

Quantifying Privacy Risk in Online Agreements with COAT: An LLM Approach – *WETICE 2025*
Latency-Constrained Overlay Networks for QoS Assurance in the Edge-Cloud Continuum – *WETICE 2025*
Improving QoS Management Using Associative Memory and Event-Driven Transaction History – *Information 2024*
An SLA-driven, AI-based QoS Manager for Edge Cloud Continuum – *WETICE 2024*