Michele Righi

DevOps Engineer

Education

2021 – 2024	**Master of Computer Engineering**, *Alma Mater Studiorum – University of Bologna*, Italy, ***110 / 110, cum laude***
	Distributed Systems, Scalable and Reliable Architectures, Cloud Platforms, SCRUM/Agile Methodologies, DevSecOps Principles, Computer Graphics, Mobile Systems and Communication.
2017 – 2021	**Bachelor of Computer Engineering**, *Alma Mater Studiorum – University of Bologna*, Italy, ***91 / 110***
	Software Engineering, Operating Systems, System Administration, Web Development

Master thesis

title	***Evolving and Scaling Enterprise Business Applications and Middleware based on Microservices: the SCM Use Case***
supervisors	Prof. Eng. Paolo Bellavista
description	Evaluated API gateway technologies and established the technical foundations for migrating SCM Group's cloud platform to a modern, enterprise-grade solution. Applied principles of microservices architecture, API management, and agile methodologies to design a scalable strategy that strengthened the company's digital infrastructure and supported core business operations.

Experience

Regular

2024 – present (1Y, 5M)	**DevOps Engineer**, *SCM Group*, Rimini, Italy Cloud Architecture, CI/CD, Operations, Sysadm, Containers.

- **DevOps/Cloud**: maintenance of cloud infrastructure and Kubernetes applications (focusing on API gateway), creation of CI/CD pipelines.
- **Edge/Sysadmin**: immutable operating systems, networking and firewall configuration, container hardening, remote configuration and update, creation of reproducible simulated environments on VMs.
- **Generic Development**: native applications, microservices, API gateway plugins, Helm chart and Kubernetes templates, container images.

2023 – 2024 (11M)	**Full Stack Engineer Intern**, *SCM Group*, Rimini, Italy API Gateway, Plugin Development, CI/CD, Microservices

- **DevOps/Cloud**: led the selection and migration of the API gateway, as the primary focus of my internship and thesis.
- **Generic Development**: developed plugins for the new API gateway, implementing custom JWT authentication and authorization based on ACL.

Vocational

2018 – present (8Y, 1M)	**OSS/FOSS Contributions** Mostly on GitHub projects I like or use

- **Apache APISIX**: *Issues*, *Pull Requests*
- **bitnami/charts**: *Issues*, *Pull Requests*
- **NGINX**: *Issues*, *Pull Requests*
- **casbin/lua-casbin**: *Issues*, *Pull Requests*
- **Hugo**: *Issues*, *Pull Requests*

Tech Stack

Languages

C	Advanced	*2017 – present, C99+, GCC, SDL, OpenGL, Visual Studio*
Java	Advanced	*2018 – present, Java8+, Spring, Maven/Gradle, Eclipse/IntelliJ*
Bash	Intermediate	*2018 – present, systemd, network/firewall, immutable OS*
Python	Intermediate	*2019 – present, Flask, FastAPI, NumPy, OpenCV, Tensorflow*
Lua	Intermediate	*2023 – present, OpenResty*

Tools and Frameworks

Cloud	Google Cloud, Microsoft Azure, Terraform	Containers	Docker, Podman, Kubernetes, Helm
Operations	GitHub Actions, Jenkins, Argo CD	Mobile Dev	Flutter
Game Engine	Unity, Godot	Computer Graphics	Blender, Sketch-up, SDL, OpenGL, OpenCV

Interests

Curricular

Open Source	Active contributor of (free and) open source projects on GitHub: *Issues*, *Pull Requests*
StackOverflow	Quite active on *StackExchange websites*

Extra Curricular

Sport	Volleyball, beach volley
Videogames	MOBA, RPG, FPS, MMO
Cosplay	Wig styling and prop making