Marco **Micera**

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***Cloud Engineer** based in Berlin, Germany, into cloud architecture, microservices, CI/CD, and open source.*

Technologies

Most experienced with	Kubernetes, Docker (Compose), GitHub Actions, Java, Scala, Bash, Linux, RESTful API (OpenAPI/Swagger), git
Some experience with	GCP, Terraform, Jenkins, Golang, Prometheus, C/C++, Python, HTML/CSS, relational and graph DBs
Dabbled in	Azure, AWS, Grafana, Spring Boot, JavaScript, jQuery, Node.js, Java Android, J2EE, PHP

Work Experience

Cloud Infrastructure Engineer — *Berlin, Germany*

Endocode AG — *Jul 2020 – Present*

- Consolidating and maintaining multi-provider (GCP, AWS, & Azure) Terraform code for a global health company
- Developed an ad-hoc license detector in Java for the EU-funded project Fasten, integrated into their pipeline (Kafka on Kubernetes)
- Partially migrated Linux Foundation-hosted FOSS compliance tool Quartermaster to microservices, moved to message queuing

Research Assistant — *Darmstadt, Germany*

University of Lugano — *Apr 2019 – Jul 2019*

- Proposed and implemented a custom flow-based cluster scheduler aware of network resources and composites
- Collaborated in (i) extending a simulator built around the scheduler in Scala, and (ii) refining the solver's cost model

Blog Posts

2021 **Java containerization for modular PF4j applications**, Endocode AG — *Berlin, Germany*

Personal Projects

kubemarks – github.com/marcomicera/kubemarks (+ PerfKitBenchmarker submod.) — *Turin, Italy*

Polytechnic University of Turin — *Sep 2019 – Feb 2020*

- Benchmarking tool based on Google Cloud Platform's PerfKit Benchmarker that can periodically run benchmarks as CronJobs on Kubernetes
- Results can be exposed to a Prometheus Pushgateway thanks to its Python client, allowing visual monitoring with Grafana

followifier – github.com/marcomicera/followifier — *Turin, Italy*

Polytechnic University of Turin — *Apr 2018 – Jan 2020*

- Tracking system that exploits Wi-Fi Probe Request frames sent by ESP32 boards placed in the corners of a room to detect and monitor devices
- Implemented ESP32 boards' firmware in C and main server's logic in Boost C++

Education

M.Sc. in Computer Engineering — *Turin, Italy*

Polytechnic University of Turin — *Mar 2017 – Mar 2020*

- Relevant courses: cloud computing, computer network technologies and services, distributed programming, software engineering (list)
- Thesis at the Technical University of Darmstadt, Germany, titled "Data center resource management for in-network processing"

B.Sc. in Computer Engineering — *Pisa, Italy*

University of Pisa — *Oct 2013 – Feb 2017*

- Part-time web developer for the School of Engineering (credits)

Skills

- Strong advocate of version control, issue tracking systems, detailed documentation, code modularity, and testing
- Knowledge of UNIX/Linux, familiarity with TCP/IP, network programming, and multi-threading programming
- Good relational and organizational skills thanks to the time spent with the Erasmus Student Network in Pisa, Turin, and Darmstadt

Languages

Italian, Native (C2) **English**, Fluent (C1, IELTS 7.5) **Spanish**, Intermediate (B1) **German**, Basic (A2)