

ANDREA DI STEFANO

DevOps/Infrastructure Engineer

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EXPERIENCE

DevOps Lead Engineer

Octostar

- 📅 July 2024 – Ongoing 📍 Italy/Full Remote
- Development, maintenance and administration of Kubernetes clusters in different environments: local development environments, Hetzner, AWS EKS
 - Developing the internal Observability stack using Prometheus, Grafana, OpenTelemetry
 - Developing and maintaining Helm Charts
 - Building Docker images for several software projects
 - Developing automations using Bash and GitHub Actions
 - System administration (Google, GitHub, Slack, ClickUp)
 - Back-end/API development using Python (Flask, FastAPI)

Back-end Developer

Italarchivi

- 📅 April 2021 – July 2024 📍 Guidonia Montecelio/Hybrid
- Back-end software development with C#/.NET and Python
 - IT Infrastructure maintenance and development (networking, Windows and Linux servers, VMWare hosts, GitLab, Prometheus, Grafana, Zabbix, more...)
 - Database development, maintenance and administration (Oracle, SQL Server, MongoDB)
 - Functional and technical requirements analysis
 - IT Support for colleagues and customers
 - Development and maintenance of the Digital Preservation system, used both internally and by customers

EDUCATION

PhD in Operations Research

Sapienza University of Rome

📅 November 2019 – January 2021 (dropped out)

M. Sc. in Computer Science

University of L'Aquila

📅 September 2016 – March 2019

B. Sc. in Computer Science

University of L'Aquila

📅 September 2012 – July 2016

STRENGTHS

- Problem solver Team player Good communicator Fast learner

OTHER THINGS

- I've been maintaining a Linux server in my parents' house since 2008
- I'm a Scout Leader and a member of the National IT Patrol of the AIGSEC (Italian branch of the Federation of Scouts of Europe), managing our IT infrastructure on both Azure and AWS
- I play the electric bass
- I'm a cat person
- I play Mario games

NOTABLE WINS

- 🏆 **Compiled drivers for Linux on my first day of using it**
In 2007, the Linux kernel did not include drivers for the WiFi card in my first laptop. I had to compile them to connect to the internet.
- 🏆 **Cut a Docker build time from 5 hours to 20 minutes**
A team was running the ARM64 builder on an x64 runner with QEMU. I switched to a native ARM64 builder and sped up build times by an order of magnitude.
- 🏆 **Ran a whole Kubernetes cluster on a laptop**
Our product had to be demoed in an air-gapped location in a different continent. I rewrote the Helm-based installer to run it inside a 1-node Kubernetes cluster running on a laptop.

SKILLS

- Docker Kubernetes AWS Azure
C# Python Shell scripting SQL
SQL Server Oracle MongoDB
Git GitHub Actions GitLab CI/CD
Prometheus Grafana OpenTelemetry
Windows Linux VMWare

LANGUAGES

- Italian ● ● ● ● ●
English ● ● ● ● ●