

# Cesare Ghirelli

Senior developer & Linux system administrator

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21/12/1975

<https://github.com/runozo>

## EXPERIENCE

### **Arpae, Bologna (Italy) — Kubernetes administrator, Linux system administrator and Python developer**

JANUARY 2005 - PRESENT

For the past few years, my job here has been to provide the developer team with a system that allows them to manage code and self-publish their web applications.

So I implemented the code management with Gitlab, creating the CI/CD chains that build and publish the applications on the Kubernetes cluster, which I implemented in turn. Web routing on the cluster is provided by Traefik.

All of the company's websites and internal web applications are load balanced, secured and published on the Internet via a reverse proxy (HAproxy), which has also been created and maintained by me.

The data provided to websites comes from MongoDB which acts as a high performance cache against internal databases.

The infrastructure created has allowed the company to overcome the problems of reliability, scalability and management that were previously present.

As a developer, I write software mainly with Python, which is my preferred programming language.

I explored many of the aspects of the Python experience: web development(Flask, Django, web.py), automation, data analysis. I also write often in Javascript and GO.

### **Servizio Meteorologico Emilia-Romagna (weather forecast), Bologna (Italy) — Web developer and system administrator**

DECEMBER 1999 - MAY 2004

At Servizio Meteorologico of Emilia Romagna, that was a public agency that provides weather forecasts and climate analysis in the region of Emilia Romagna, I was called to create from the ground up, their first official web site (1999), which I developed with C written cgi-bins in the backend and some Java Applets on the frontend. It was the 90's so that was all what we had for the purpose. The platform was a Windows NT Server. It provided weather forecasting services and real-time meteorological data.

## SKILLS

Senior developer,  
Senior Linux system administrator, Kubernetes administrator, Docker captain

## TECHNOLOGIES, LANGUAGES, FRAMEWORKS & APPS (more experienced come first)

Linux, Docker, Kubernetes, HAProxy, Python, Flask, GO, Javascript, React, MongoDB, Traefik, System security, Network security, Nginx, Apache, Django, Node.JS, Plone, ASP.NET, C# , Oracle DB, Microsoft SQL Server, VbScript, Php, C and still learning something new everyday.

During the years (over 20 years now) the site grew enormously both in content and network traffic, while I was the one-man behind it. So I acquired a vast amount of experience in modernizing, scale and to secure web sites. The technologies involved in this process, time sorted, were: C, Java, Windows 2000, Classic ASP, Microsoft SQL Server, ASP.NET (from version 1.0 until 4.5), Windows 2003, Oracle, Php, Python, Apache, HAproxy for load balancing and high availability, Memcache, MongoDB, Docker and Kubernetes.

### **PICODATA s.r.l., Milan (Italy) — System administrator**

SEPTEMBER 1998 - MAY 1999

Remote job. PICO Data was a company located in Milan that also provided IT assistance to the Protezione Civile of Emilia-Romagna in Bologna, where I was assigned. With them, I learned OpenVMS, Digital Unix and Windows NT system administration. At the time we still didn't have TCP/IP, but DECNET network protocol.

### **DEFAULT Servizi Informatici s.c.a.r.l., Bologna (Italy) — Software developer**

SEPTEMBER 1996 - MAY 1998

Here I was one of the company founders, mainly working with Borland Delphi and Visual FoxPRO to develop database applications for our external customers.

## **EDUCATION**

### **I.T.I.S. O.Belluzzi, Bologna (Italy) - Computer Programmer**

1991 - 1996

## **COURSES**

- **Junior Pentester path - Tryhackme.com**
- **Docker Mastery: with Kubernetes and Swarm - Bret Fisher**
- **The Complete React Web App Developer Course - Andrew Mead**
- **Coding for Entrepreneurs (Python + Django course)**
- **Projects in MongoDB - Eduonix**
- **Machine Learning & Tensorflow - Notez**
- **Deep Learning prerequisites: The Numpy stack in Python - Lazy Programmer Inc.**
- **Building Interactive Data Visualizations with D3JS - Packt Publishing**
- **Advanced JavaScript: A Course for Serious Programmers - Frontend Masters**

- **Plone for developers** - *RedTurtle Technology*
- **Plone for administrators** - *RedTurtle Technology*
- **Oracle PL/SQL** — *Oracle Inc.*